



# ***The Resonator***

**Official Newsletter of The Fair Lawn (NJ) Amateur Radio Club**

**Volume 6, Number 8**

**www.FairLawnARC.org**

**August 2021**

## **From The President**

Dear FLARC Family,

Eureka! We are back...

It was great to have our first in-person meeting at the Rec Center after over a year. It was wonderful to see all of you again and slowly but surely get back together. Those of you in the auditorium and the rest on Zoom, made it a great evening. We truly know and understand many of you will not come to the Rec Center for now. Totally understandable and we encourage you to do whatever you need to stay safe and healthy.

That is why I will continue to offer the Zoom option for those that can't or won't come to the club. We want you to be with us however you deem appropriate.

I want to take this opportunity to thank Bill NB1LL for a wonderful Technician License Class this past

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## **New Member Profile**

**Name:** Jeremy Griffel

**Callsign :** K2GRI

### **What do you do/what did you do for a living?**

I currently work as an EMS Lieutenant in NYC as well as a volunteer with my local ambulance Corp in Rockland County. I also teach CPR / First Aid Classes on my days off.

### **How did you get interested in ham radio?**

I have been the communications officer for my ambulance Corp for the past 8 years, assisting with minor troubleshooting and sending items for service whenever needed.

I also had a partner at work in New York City who is an amateur radio operator and began to peak my interest in the hobby a few years ago. He subsequently had left our station but during COVID I needed something to channel my thoughts away from the horrific things I was seeing at work each day and realized it was the perfect escape to begin to study and dust off the books I had picked up a year or so prior.

I was intrigued and began to realize how much more there was to a radio then just pushing a button on a channel. In fact, in my mind I think that is one of the greatest things about this hobby is that to those who have no idea it can seem so simple, but to those who do it you come to realize how much is truly involved with getting that message from Point A to Point B.

### **What parts of the hobby most interest you?**

I would say to me the most interesting so far has been exploring how far my little radio setup can get me. I run only mobile currently, although I did just put together a backpack with a G-90, battery pack, and other things to use for POTA & other field stuff. But

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## FLARC To Hold VE Testing On August 14<sup>th</sup> at INDOOR LOCATION

On August 14, 2021 Fair Lawn Amateur Radio Club will continue amateur radio test sessions. These sessions will be held indoors.

The location is at:

The Fair Lawn Recreation Center  
10-10 20<sup>th</sup> Street  
Fair Lawn, NJ

**NOTE THAT THIS IS AN INDOOR LOCATION!**

Covid-19 related incidents will cancel testing.

### Prior to Testing:

Send an email to [w02w@arrl.net](mailto:w02w@arrl.net) requesting to book your spot. Pre-registration is **REQUIRED**.

### Please Bring With You:

- You **MUST** bring and **WEAR** personal PPE items including a face mask
- 2 pens and 2 pencils. None will be provided to you due to possible virus transmission
- Your FRN number, and (if licensed) a copy of your ham license or a valid CSCE (Certificate of Successful Completion Exam)
- A completed Form 605 (which will be sent to you ahead of your test session, along with your assigned test time. )
- Additionally, the **\$15.00 exam fee**. This is payable in cash (**exact amount is a must**)
- 3 copies of the CSCE form which will be sent to you ahead of your test session

Additional scheduled testing dates are:  
September 11, 2021.

*FLARC is following government Covid-19 guidance closely and all events will adhere accordingly to the latest advice.*

## FLARC Tests Emergency Communications Capabilities

On Saturday, July 17 several FLARC members assembled to test simplex communications capabilities within Fair Lawn. Testing both VHF and UHF frequencies, the members scattered across town attempting to reach the clubhouse where Jim N2JLF coordinated the drill.

A thanks to Gregg N2ECH, Ali ALØY, Dave KD2MOB, Karl W2KBF, Noel W2MSA, Ed KD2VTZ, Jim N2JLF and Ed WX2R for participating in the test.



L to R: W2MSA, N2ECH, W2KBF, KD2MOB, ALØY, N2JLF, and KD2VTZ



# The Fair Lawn Amateur Radio Club

Why Is FLARC New Jersey's Most Exciting Radio Club?

## Events

- Field Day
- Winter Field Day
- World Amateur Radio Day
- Portable Days
- Earth Day
- Special events
- Memorial Day parade
- Independence Day fireworks
- Fair Lawn Street Fair(s)
- Ham fests/Auctions
- Foxhunts
- Contests
- Field trips
- Annual holiday party
- ...and more!



## There Is Something Every Night At FLARC!

- Monday: Near and Far Net
- Tuesday: DMR Net
- Tuesday: "Pop Up" Open House/Open Zoom
- Wednesday: ARES/RACES Net
- Wednesday: Health and Welfare Net
- Thursday: Tech Net (with BARA)
- Friday: Kawfee Tawk Speaker Series (monthly)
- Weekends: POTA and other station activations

There is Something for Everyone at FLARC!



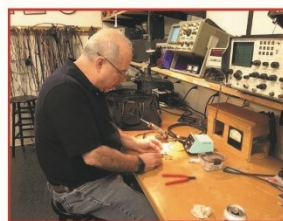
## Special Interest Groups:

- Portable Ops: POTA, SOTA, etc.
- DX: Chase the rare ones
- Digital Voice: DMR and other digital modes
- FT8: And other WSJT modes
- Satellite: Also, for weather GPS interests
- Monitoring: SWL and other general listening
- And others to come!!



## Plus:

- Monthly VE Testing
- An active repeater – W2NPT (linked with NJ2BS)
- New equipment in the shack
- New antennas on the roof
- A five-position operating clubhouse
- Over 72 consecutive months of speaker programs to learn and grow.



## That's why FLARC is the best club around!!

Join us in our in-person and in our Zoom Room for more activities, speakers, and projects to come!

*FLARC is following Covid-19 government guidance closely and all events and activities will adhere accordingly to the latest advice.*



**The Club** Fair Lawn ARC is the fastest growing ham club around, with five operating positions in a permanent clubhouse. Visitors and guests are always welcome. The club is open every Friday night from NLT 6:30 PM. Business meetings are the first Friday of the month at 7:30PM.

#### 2021 Officers, Committees and Assignments

President	Nomar Vizcarrando	NP4H
Vice President	John L. Howard	W2JLH
Treasurer	Bruce Kalogera	NJ2BK
Secretary	Tom McCabe	N2AXX
Trustee	Ed Efchak	WX2R
Trustee	Don Cassarini	K2PD
Trustee	Fred Wawra	W2ABE
Field Day	Steve Wraga	WA2BYX
Member Services	Judith Shaw	KC2LTM
Publicity	Ed Efchak	WX2R
Publicity	Gene Ottenheimer	WO2W
Publicity	Judith Shaw	KC2LTM
Publicity	Susan Frank	W6SKT
Program	Lowell Vant Slot	W2DLT
Publicity	Karl Frank	W2KBF
Publicity	Nomar Vizcarrando ( <i>ex officio</i> )	NP4H
Social Media	Dave Marotti	NK2Q
Video/YouTube	Thom Guida	W2NZ
VE Liaison	Gene Ottenheimer	WO2W
VE Liaison	Pete Senesi	KD2BMX
Contests	Lowell Vant Slot	W2DLT
Education	Gordon Beattie	W2TTT
Education	Randy Smith	WU2S
Education	John L. Howard	K2JLH
Education	Fred Wawra	W2ABE
History	Fred Belghaus	W2AAB
Health and Welfare	Judith Shaw	KC2LTM
Photographer	Don Cassarini	N2PRT
W2NPT Trustee	Paul Cornett	W2IP
Technical	Paul Cornett	W2IP
Technical	Randy Smith	WU2S
Technical	Fred Wawra	W2ABE
RACES/ARES Director	Dave Gotlib	KD2MOB
RACES/ARES Liaison	Steve Wraga	WA2BYX
Newsletter Editor	Ed Efchak	WX2R
FL Town Liaison	Gene Ottenheimer	WO2W
Net Scheduler	Brian Cirulnick	KD2KLN
Quartermaster	Brian Cirulnick	KD2KLN

#### Fair Lawn RACES/ARES Corner



Hello fellow ARES members and friends. Summer is here and along with the summer comes all sorts of outdoor activities.

The Northeast New Jersey ARES team (consisting of Fair Lawn ARES, Passaic County ARES and Bergen County ARES) has Northeast New Jersey covered! On Saturday, June 17th we held an emergency communications drill. Eight ARES members covered various locations within Fair Lawn, with Jim N2JLF as the Central Control Point (the FLARC location).

We first communicated through the Repeater, then on VHF and UHF simplex frequencies. It was interesting to see how we were all able to communicate on the VHF and UHF simplex frequencies with Jim N2JLF, however we weren't able to hear each other from one end of town to the other in many cases.

The terrain had an impact as well as the radio power. A 5 watt transceiver with a short antenna didn't quite do the job.

Thank you to all who participated - Ed KD2TVZ, Jim N2JLF, Aly ALØY, Karl W2KBF, Noel W2MSA, Gregg N2ECH and Ed WX2R. I guess I'll thank myself as well - David KD2MOB.

Here's a correction to the July Resonator - I thanked NENJ ARES members for an event which was postponed!! The Fair Lawn Fireworks Night is now taking place on Sunday, September 5th.

I would like to thank the NENJ ARES members and Fair Lawn RACES members in advance for volunteering for Fair Lawn Fireworks Night

Continued on page 5.

## Fair Lawn RACES/ARES Corner,

which will take place on Sunday, September 5th at Memorial Park. These members will assist FLARC with many of the organizing activities including radio communications, of course. Please contact me or Gene WO2W if you would like to participate (I am hoping this event does take place).

The NENJ ARES Net takes place every Wednesday at 8:00 PM, which is the same time slot and uses the same frequencies as the FL-ARES Net. The new ARES Net combines FL-ARES with Bergen County ARES and Passaic County ARES for one weekly Northeast NJ ARES Net. It has come to our attention that combining the Nets would provide greater interest (check-ins), more emergency communications discussion and messaging during one timeframe versus three separate dates and times. Sure enough it has!! I would like to thank Aly ALØY, Ed KD2TVZ and Jim N2JLF for being the Net Control Operators (NCO) or alternate Net Control Operators (ANCO).

I'd like to direct you to a great website which gives us access and information for our training sessions -

<https://harriscountyares.org/training/training.php>

Everything from knowledge based training to safety, weather and messaging is included on this website. When you have the opportunity, please check it out.

## Fair Lawn RACES/ARES Corner, cont.

**BREAKING NEWS** -- there is now a new SIG Special Interest Group in the FLARC groups.io called the EmComm SIG. It's expected that this SIG will cover more than just ARES/RACES - it will be a home base for everyone interested in Emergency Communications ... to share files and info. Join by sending an email to:

[EmComm-SIG+subscribe@FairLawnARC.groups.io](mailto:EmComm-SIG+subscribe@FairLawnARC.groups.io)

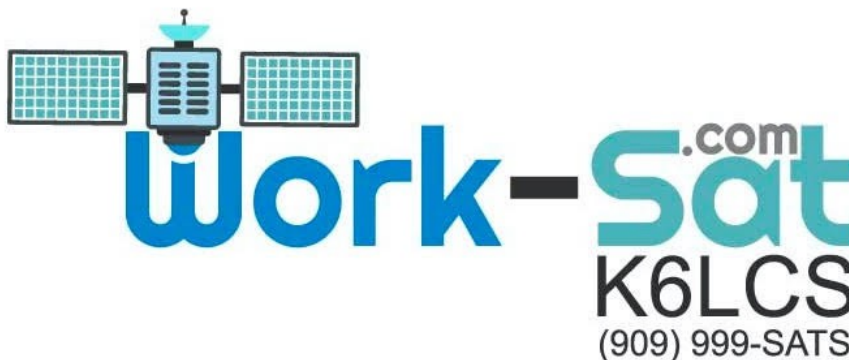
Our Nets are open to all amateur radio enthusiasts. Our ARES members, who are volunteers, are able to assist anyone with answers to questions they may have regarding emergency communications. Also, our Nets include members not only Fair Lawn ARES, the nets consist of members from Bergen County ARES, Passaic County ARES, Gloucester County ARES and Wayne County(PA) ARES as well.

Please note the time of the New NENJ NJ ARES Net (KB2FLA Net). It takes place on Wednesdays at 2000 hours on the FLARC and NJ2BS Repeaters. Maybe one day the NJ2PC Repeater will be connected as well. Please join us every Wednesday for any updates, messages or activities which may take place. We are on the following repeaters and Echolink:

The Fair Lawn ARC Repeater info is:

RX 145.47 MHz / TX 144.87, PL Tone 167.9 Hz  
Echolink W2NPT-R.

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## 2021 FLARC Kawfee Tawk Programs

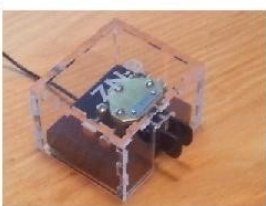
Date	Presenter	Program
Friday, January 15, 2021	Lauren Libby W0LD	Trans World Radio/Operating A Super Station
Friday, February 19, 2021	Ed Efchak WX2R	The FLARC Member Survey
Friday, March 29, 2021	Otis Vincens NP4G	INDEXA
Friday, March 12, 2021	Dave Snyder KD2VGT	Pico Balloons, Ham Radio, and Seton Hall STEM
Friday, April 16, 2021	Wayne Smith WB2ONZ	Amateur Radio and The Civil Air Patrol
Friday, May 14, 2021	Bob Holstrom KD2BKD	Setting up DUDE-Star for Digital Voice Communications
Friday, May 21, 2021	Roland C Luetzelschwab K9LA	Propagation and Cycle 25
Friday, June 11, 2021	Barry Feurman K3EUI	Sound Card Digital Modes
Friday, July 16, 2021	Neil Goldstein W2NDG	Today's Kit Industry –Build Your Own Radio!!
Friday, July 23, 2021	Barry Feurman K3EUI	EMCOMM Needs For Digital Modes
<b>Friday, August 13, 2021</b>	<b>Charlie Cebula AC2ZU</b>	<b>The Story of Project Diana</b>
<b>Friday, August 20, 2021</b>	<b>Larry Van Horn N5FPW</b>	<b>Listening to Military Aircraft via Satellite</b>
Friday, September 10, 2021	Brian Cirulnick KD2KLN	Setting Up A Solar Powered Station (Tentative)
Friday, September 17, 2021	Clint Bradford K6LCS	How to Work Amateur Satellites with Your HT
Friday, September 24, 2021	Ria Jairam N2RJ	Amateur radio in Trinidad and Tobago
Friday, October 15, 2021	Kent Britain WA5VJB	All You Need To Know About Yagi Antennas
Saturday, November 6, 2021	Barry Feurman K3EUI	Beginner's Look at the Nano VNA
Friday, November 12, 2021	Tom Abazia KB2ESE	Building an SDR Transceiver
Saturday, November 13, 2021	Barry Feurman K3EUI	Under the Hood of a Nano VNA
Friday, November 19, 2021	Tom Perera W1TP	SPY Radios and CIA Bugs
Friday, December 10, 2021	Bob Antoniuk N2SU	The History of Callsigns
Friday, December 17, 2021	Rich Moseson W2VU	Thoughts About Growing Amateur Radio

# WWW.GIFTS4HAMS.COM

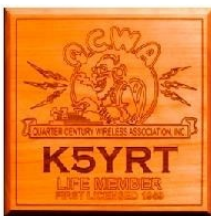
*EVERYTHING ENGRAVED FOR THE HAM STATION*



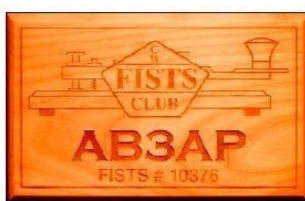
LED SIGNS  
CLUBS,  
ORGANIZATIONS  
& CUSTOM



KEY COVERS  
ALL MAKES AND MODELS  
BEGALI, N3ZN, VIBROPLEX  
KENT, CUSTOM KEYS, ETC.



LASER ENGRAVED  
WOOD PLAQUES, CLUBS  
SHARED SHACK



*PLUS MANY MORE ITEMS !*



Hidetsugu Yagi's 130th Birthday Google Doodle

## SIG Group Participation as of July 30, 2021

Here is an update on the roster of Special Interest Groups... all groups have increased in size during the last month:

Digital Voice	33
Monitoring	24
DX	17
FT8	19
Satellite	15
Portable Ops	35
EmComm	new
FLARC General	156

Sign up for a group... or ...  
why not start one?

Contact [webmaster@FairLawnARC.org](mailto:webmaster@FairLawnARC.org)  
if you would like to start a new  
Special Interest Group.

## Follow FLARC ON THE WEB

Facebook: <http://facebook.FairLawnARC.org>

Twitter: @FairLawnARC

Blog: <http://blog.FairLawnARC.org>

Youtube: <http://youtube.FairLawnARC.org>

Website: <http://FairLawnARC.org>





## ***The Story of Project Diana***

### **2021 FLARC August 13<sup>th</sup> "Kawfee Tawk" Series**

Project Diana, named for the Roman moon goddess Diana, was an experimental project of the US Army Signal Corps in 1946 to bounce radar signals off the Moon and receive the reflected signals. This was the first experiment in radar astronomy and the first active attempt to probe another celestial body. It was the inspiration for later EME (Earth-Moon-Earth) communication techniques. Project Diana was the first time a radar signal was able to penetrate the ionosphere and made it possible to bounce a radar signal off the moon. That opened the US Space race, since this success allowed for future satellite communication and manned space communications.

2021 marks the 75th anniversary date of the Project Diana successful completion.

On August 13<sup>th</sup>, Charlie Cebula AC2ZU will bring a presentation about this historic event to FLARC. It is the story of Dr. Walter S. McAfee - who was a mathematician/physicist who developed the mathematical calculations that made possible the success of Project Diana.

Now retired, Cebula worked at Ft. Monmouth, NJ for the US Army as an Electronics Engineer (Civilian) involved with Army Command, Control and Communications Systems (1972-2009). He later worked as an Electrical Engineer for Computer Science Corporation and was also an Adjunct Instructor in the Electrical and Computer Engineering Dept at New Jersey Institute of Technology (NJIT) from 1982-2009 – teaching courses in both Electrical Engineering and Electrical Engineering Technology.

Please note that Charlie will add some additional information on the presentation to introduce everyone to InfoAge at Belmar NJ – which is the location where many technological events took place, including Marconi's wireless station in 1914. RCA radio labs and Army Ft. Monmouth did Project Diana and many other important electronic advances from that location. InfoAge is a museum and a great place to visit. It was also where the Ocean Monmouth Amateur Radio Club was housed prior to their move to Spring Lake, NJ.

So, join FLARC on August 13<sup>th</sup> and learn more about one of the scientific giants of our age. If you have any questions, please contact Ed Efchak at 802-282-6700 or at [wx2r@arri.net](mailto:wx2r@arri.net). For more information, please visit the club's website at [www.FairLawnARC.org](http://www.FairLawnARC.org) or call 201-791-3841.

The link to the presentation can be found here:

ZOOM log in info: <https://us02web.zoom.us/join> Meeting ID: 870 5270 1875 Passcode: diana





## ***Listening to Military Aircraft via Satellite***

### **2021 FLARC August 20<sup>th</sup> "Kawfee Tawk" Series**

Military aircraft monitoring has always been one for specialty tastes and we have all probably had a go at listening to frequencies "in the clear" in past days. While it is getting harder to do with encryption and other forms of security, it can still be done. Here is your chance to learn how. And we have one of the experts to teach us.

The presentation will be held on Friday, August 20th at 7:30 PM EDT via Zoom. You join from here:

**Join the Zoom Meeting at** <https://zoom.us>

**Meeting ID:** 811 4681 8052

**Password:** listen

**Telephone password:** 800372

We are fortunate to have as a FLARC Kawfee Tawk speaker an expert on monitoring military aircraft via satellite. Larry Van Horn, a native of San Antonio, Texas, got his start in the radio listening hobby in 1964. His parents gave him his first shortwave receiver, a Hallicrafters S-120 tube type shortwave radio, for Christmas that year. In 1971 he joined the U.S. Navy and served on a variety of U.S. naval warships and in the naval aviation community until his retirement in 1993. He retired in New Orleans with the rank of Chief Petty Officer.

He was first licensed as an amateur radio operator in 1973 with the call sign WH6INU. Later, Larry upgraded to General Class and spent his early ham days operating out of the world famous KH6SP ham shack in Pearl Harbor, Hawaii, chasing DX and contesting.

A licensed Extra Class ham, holding the call sign N5FPW, Larry enjoys operating QRP (low power), using CW and digital modes, contesting, and chasing DX. Other aspects of the radio hobby that he enjoys include monitoring military communications (throughout the radio spectrum), federal government monitoring, chasing HF utility communications, satellite monitoring, and AM, FM, and TV broadcast DXing.

Larry worked for the famed Grove Enterprises in Brasstown, North Carolina - the publisher of Monitoring Times magazine - for 20 years until the business closed in December 2013. His job on the MT staff was the magazine's assistant / technical editor and staff journalist. He wrote for Monitoring Times magazine as a freelance writer and full-time staffer for over 30 years until the publication closed. He was also the creator and managing editor of Satellite Times magazine, another Grove Enterprises publication that was published for over five years. Larry currently resides in Brasstown, North Carolina, with his wife Gayle W4GVH. Larry is the co-founder and president of the Teak Publishing Company based in western North Carolina.

So, join FLARC on August 20th and learn more about one of the great scientific projects of our age. If you have any questions, please contact Ed Efchak at 802-282-6700 or at [wx2r@arri.net](mailto:wx2r@arri.net).

For more information, please visit the club's website at [www.FairLawnARC.org](http://www.FairLawnARC.org) or call 201-791-3841.



## AMATEUR RADIO TESTING BY THE FAIR LAWN AMATEUR RADIO CLUB

On August 14, 2021 the Fair Lawn Amateur Radio Club will continue amateur radio test sessions on a modified basis.

These sessions will be held at the **Fair Lawn Amateur Radio Club.**

**The location is at 10-10 20th Street, Fair Lawn, NJ**

The session starts at 9:15 AM.

**A document will be provided to you prior to the date to indicate the time assigned to you.**

You must have it with you to take the test.

### **Prior to Testing:**

Send an email to [wo2w@arrl.net](mailto:wo2w@arrl.net) requesting to book your spot.

**PRE-REGISTRATION IS REQUIRED - NO WALK-INS ACCEPTED.**

### **Upon Arrival:**

You must have a government issued ID such as a valid driver's license or passport, a filled out Form 605, and **3 filled out copies of the FCC CSCE form.**

### **Please Bring With You:**

- You **MUST** bring and **WEAR** personal PPE items including a face mask.
- 2 pens and 2 pencils. None will be provided to you, due to possible virus transmission.
- Your FRN number, and (if licensed) a copy of your ham license or a valid CSCE (Certificate of Successful Completion Exam).
- Additionally, the **\$15.00 exam fee**. This is payable in cash (exact amount is a must).

## W2NPT To Operate During Annual North American QSO Party on August 21<sup>st</sup>

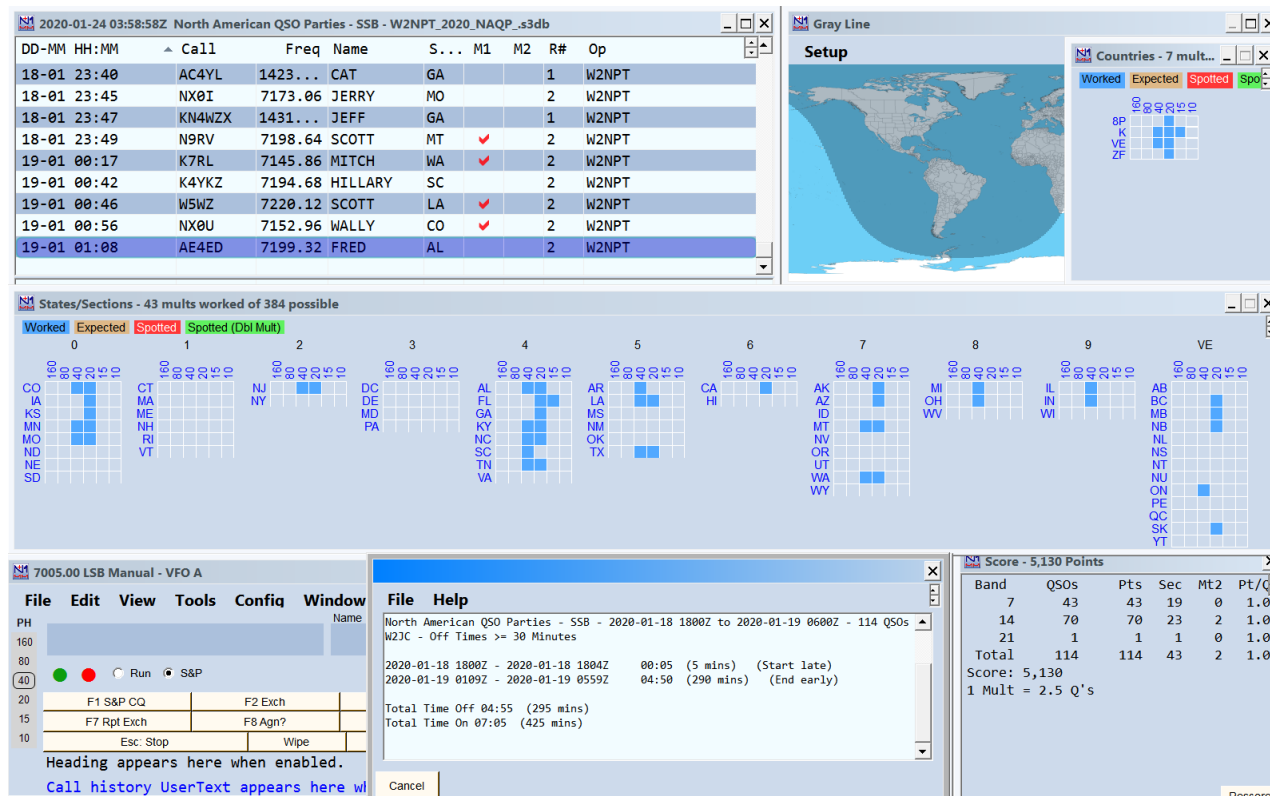
Van W2DLT will be around to open the clubhouse for the North American SSB (voice) QSO Party on Saturday, August 21st from noon to 9PM. This is a great opportunity to introduce new hams (Technicians especially) to HF operating.

Van has chaired this in the past and would welcome the opportunity to provide for people to come, operate, learn about HF operating and schmooze that day. Everyone is welcome whether newly licensed or not. It is a good chance to give everyone a chance to operate the equipment, make contacts and make a few points for FLARC.

See you then!

FLARC is following government Covid-19 guidance closely and all events will adhere accordingly to the latest advice.

W2NPT operated in the SSB NA QSO Party in January 2020 ... here's info on our results –



To help Van with planning for the day, and long evening, please let him know if you will take part in this fun activity -- and also what hours you will be there.

Send your info to [vanw2dlit@yahoo.com](mailto:vanw2dlit@yahoo.com)

## FLARC Technician License Prep Class a Big Success

The Fair Lawn Amateur Radio Club (FLARC) offered a Technician Class License Training course on July 31<sup>st</sup> and August 1<sup>st</sup>. This took place at the Secaucus Masonic Lodge with 8 participants.

The class was taught by Bill Kelly NB1LL, a well-known and respected instructor. For two days, the students learned basic regulations, operating practices, and electronics theory - with a focus on VHF and UHF applications.

At the end of the second day, the Technician Class License exam was administered by Volunteer Examiners.

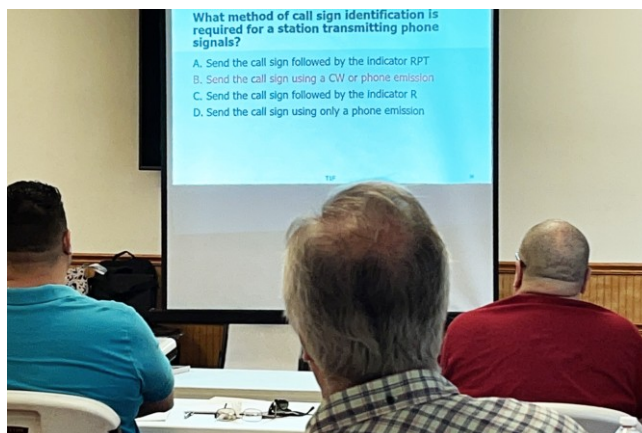
Seven of the 8 students passed their exam. We would like to congratulate and welcome to the hobby:

Stuart Ferreira,	KD2WTB
Tristian L Diaz,	KD2WTD
Luis G Diaz,	KD2WTE
H.E. Couvielos,	KD2WTG
John J. Russo,	KD2WTI
Josh Chase,	KD2WTJ and
Kevin Lamasney,	KD2WTK.

Our sincere appreciation to Bill NB1LL for an outstanding class and to the Volunteer Examiners that took time off their Sunday to come and assist in administering the test. We also wish to thank the Secaucus Masonic Lodge and its President, L. Dennis Davila K2LDD for opening the doors of the Lodge and allowing FLARC to conduct this training.



GROUP PICTURE - left to right: Gene Margroff WR2V (New FLARC Member), Bruce Kalogera NJ2BK (FLARC Treasurer), Luis G. Díaz KD2WTC (New Licensee & FLARC Member), Tristian L. Diaz KD2WTD (New Licensee & FLARC Member), Bill Kelly NB1LL (Class Instructor) & Nomar Vizcarrondo NP4H (FLARC President)



Bill Kelly NB1LL, Instructor, in action!



## Pandemic Theatre

A 1939 short film from Metro Goldwin Mayer highlights the use of ham radio. Get the whole family involved. Ham radio saves the day!! A fun look at the technology at the start of WWII. About 11 minutes. Via Vimeo.

<https://vimeo.com/79070379>

## Club Openings and Kawfee Tawks

Before the pandemic struck, the club's Friday night SOP was to close the clubhouse on *Kawfee Tawk* speaker program nights and meet at the Senior Center.

With all *Kawfee Tawks* now via Zoom, we will continue the policy of focusing on our speakers and preempting in-person gatherings at the clubhouse on KT nights. Simply, the clubhouse will be closed.

By popular demand we have a heavy schedule of speakers from both the outside and also FLARC members until the end of the year. Early 2022 will be a much lighter speaker schedule and hopefully a demise in COVID-19 issues will make a return to the clubhouse a happy occasion again.

Thanks for your consideration. Check out the full 2021 *Kawfee Tawk* program in The Resonator, page 6.

**Special Note:** *As non-profit, the IRS now requires that we disclose annually the use of paid lobbyists to our members and indicate approximately what percentage of their dues goes toward that. 0% of your 2021 dues payment will be used by the club to directly pay a lobbyist firm to lobby on behalf of all our members regarding pending legislation that impacts our hobby.*



## American Red Cross

**Blood Donors Needed  
In This Time Of Emergency**

The Red Cross and related organizations are in great need for blood donations since most corporate blood drives have been cancelled.

[Communitybloodservices.com](https://www.communitybloodservices.com) has a network of offices open during the week and would really welcome folks making appointments to donate blood.

Thanks!

## Please Note: Operating at W2NPT

Starting in January 2019 club trustees have sign-in sheets for all operating positions. There is a clipboard at Operating Position #1, #2 (digital) and #4 with a form on which to sign up for half-hour time slots. No longer first come-first served, in fairness to all who want to use our club equipment and the new antennas. Hopefully some day we will again be able to use our operation positions!

## Get Direct With FLARC!

Here is a direct link to specific club info: just a click away!

<http://apparel.FairLawnARC.org>  
<http://auction.FairLawnARC.org>  
<http://blog.FairLawnARC.org>  
<http://calendar.FairLawnARC.org>  
<http://events.FairLawnARC.org>  
<http://exams.FairLawnARC.org>  
<http://facebook.FairLawnARC.org>  
<http://news.FairLawnARC.org>  
<http://swap.FairLawnARC.org>  
<http://tech.FairLawnARC.org>  
<http://youtube.FairLawnARC.org>

**NEW !**

<https://groups.io/g/FairLawnARC>



## Online License Testing!

Are you looking to get your license or upgrade without leaving your home? All you need is a laptop computer with a video camera.

There are number of sites listed on [hamstudy.org/sessions](https://www.hamstudy.org/sessions) These folks will walk you through taking an exam online.

I have worked with both WB5QNG and AA7HW. If you have any questions, please contact me at [mStevenk2sab@gmail.com](mailto:mStevenk2sab@gmail.com)

73,  
Steven Boston K2SAB

## August 2021 *Near and Far* Net Controls

Here is the roster for net controls for the upcoming month as reported by Brian KD2KLN:

Date	Net Control
August 2	KD2KLN
August 9	KD2KLN
August 16	KD2KLN
August 23	KD2MOB
August 30	N2AAM

**But we need more volunteers to be net controls** - if everyone takes their turn it's less burden on the others. And it's easy.

Volunteer --- don't wait to be asked (unless you really want to be flattered).

## Ham Radio Is Contagious And It Won't Make You Sick!!

### Save The Date?? !!

It may be August and it may be hot, but Thanksgiving is right around the corner.

And Thanksgiving means turkey, holiday shopping and... **The FLARC Auction!!** We will be deciding on whether to do one for 2021, taking into consideration possible COVID-19 constraints and the continued availability of the Senior Center.

After the wild success of our hamfest, many have asked us if we plan to continue the annual auction. The answer is a tentative "yes" but stay tuned for a final go/no-go decision.

So, save the date – Friday, November 25<sup>th</sup>.



## Club Apparel — Get Them While They're **RED**!

Club apparel is always in vogue. Red is always "in" and your club friends all have them... you *want* a shirt or jacket for the next FLARC event! Great for Field Day!

Don't forget.... they're easy to order.

Go to [www.hamthreads.com](http://www.hamthreads.com)

or visit <http://apparel.FairLawnARC.org>

Check out the item selection that is posted on the **FLARC website** (with pictures and prices). Order the shirts or other items you want with either the regular FLARC logo or the still-cool 60th anniversary logo. Note: **RED** is the primary and preferred club standard shirt color.



Thom W2NZ behind the camera  
at the clubhouse in 2019

## 2021 FLARC Nets On The W2NPT Repeater:

*Near and Far Net Mondays at 8PM*

*Health and Welfare Net Wednesdays at 7PM*

*W2NPT and NJ2BS Repeaters*

## Help Wanted

The Publicity Committee is looking for some new members to help continue to improve the marketing and promotion of the club, it's activities and amateur radio. This is an active group so a willingness to participate is a strong plus. Experience in digital marketing and/or public relations is a plus.

Call Ed WX2R at 802-282-6700 or email him at [wx2r@arri.net](mailto:wx2r@arri.net) if you're interested.

**Remember:  
Ham Radio Is a Contact Sport!**

### BEQUEATHS AND DONATIONS

Planned gifts usually imply the family donation of amateur equipment to the club when someone has become a Silent Key. But it can be more. Club members might consider making a gift through a will or trust; gifts that help provide lifetime income to the club. Consult with your lawyer, estate planner or tax advisor if you feel such a gift is worthy.

## About The Club

*The Resonator* is published monthly and is the official (and only) newsletter of The Fair Lawn Amateur Radio Club. FLARC was established in 1956 and has met continuously since inception. **The club is sponsored by the Borough of Fair Lawn.** The club meets every Friday at 6PM at the club station in The Fair Lawn Community Center, 10-10 20th Street, Fair Lawn, NJ. Business meetings are the first Friday of the month at 7:30 PM, on Zoom for now.

Visitors **ARE ALWAYS** welcome at our meetings.

FLARC operates the W2NPT repeater (145.470-PL 167.9) located high atop the Community Center. The analog repeater is open to all amateurs for use without restrictions.

The club has over one hundred fifty paid members. Dues are currently \$25 per year;  
\$20 for new members.

*Content and opinions expressed by contributors do not necessarily reflect the policies of the Fair Lawn Amateur Radio Club, its Officers or members. Contributors grant express permission to FLARC to distribute articles in this or any issue of The Resonator. Authors also grant express permission for the use and/or repurposing of these articles, in part or in full, in other publications with credit to the original author and to The Resonator. All material is copyright ©2020. Do not copy or reproduce any of this material without the written permission of FLARC.*

**Stay Safe! Get on the Air!!**

**The Health and Welfare Umbrella Net  
Wednesdays  
7PM Local  
W2NPT and NJ2BS Repeaters  
Open To All**

## PUBLICITY COMMITTEE NEWS

The Publicity Committee is seeking new members to help grow the club with its varied activities. Enthusiasm desired... no experience necessary. Contact Ed WX2R or any other committee member.



**FAIR LAWN'S  
COMMUNICATIONS CENTER!**  
***With New Antennas On The Roof!***



## Past FLARC Member Profiles

Here is a list of past member features and we welcome your recommendations for new profiles -- including your own.

Month	Name	Call Sign
January 2016	Pete	KB2BMX
February	Marco	KC2ZMA
March	Ron	KC2TBD
April	Kai	K2TRW
May	Larry	WA2ALY
June	Dave	N8MAR
July	Steve	W12W
August	Thom	W2NZ
September	Brian	KD2KLN
October	Brad	KM2C
November	Al	WA2OWL
December	George	W3EH
January 2017	Fred	W2ABE
February	Dave	KD2MOB
March	Randy	WU2S
April	Lee	KD2DRS
May	Gene	WO2W
June	Carol	KD2NMV
July	Kevin	KC2KCC
August	Robert	KD2NOG
September	Robert	KD2BKD
October	John	KD2NRS
November	Fred	W2AAB
December	Margaret	W2GB
January 2018	Brian	KD2OAZ
February	Bennett	KO2OK
March	Van	W2DLT
April	Aly	ALØY
May	Bruce	NJ2BK
June	Dave	N2AAM
July	Karl and Susan	W2KBF and W2SKT
August	Steve	KA2YRA
September	Paul	K2PJC
October	Skip	KD2BRV
November	Jim	W2JC
December	Tom	N2AAX

By the way, Randy (WU2S) has compiled a binder of all back issues of *The Resonator* and it's located in the club office.

Thanks Randy!!!

## 2019-20 Member Profiles

The year is now complete and here is a list of the 2019 monthly profiles. See past profiles elsewhere in *The Resonator* to check back in the archives to see each featured member's background.

Month	Name	Call Sign
January 2019	Dave	KD2JIP
February	Jim	K2ZO
March	Zach	KC2RSS
April	Bob	N2SU
May	Stan	KC2K
June	Steve	WA2BYX
July	Roger	K2RRB
August	Judith	KC2LTM
September	Chris	W2TU
October	Bob	N2SU
November	Bob	WA2ISE
December	Carol	KD2NMV
January 2020	Gordon	W2TTT
February	Chris	KD2JQZ
March	Glenn	KD2MDR
April	Steve	K2SAB
May	Ahmed	NJ8Y
June	Charlie	AC2ZU
July	Jim	N2JLF
August	Walt	K3DQB
September	Gregg	N2ECH
October	Jim	W2KNG
November	Dave	KD2SGM
December	Bill	NB1ILL

## 2021 Member Profiles

Here is a list of the 2021 monthly profiles.

Month	Name	Call Sign
January 2021	Ed	KD2TVT
February	John	W2USN
March	Noel	W2MSA
April	Gene	KD2VNI
May	Berlotte	KD2MYF
June	Noel	N2OEL
July	Roy	KD2VMX
August	Jeremy	K2GRI
September		
October		
November		
December		



**New Member Profile, continued**

the fact that just with 100 watts (or less) I can talk around the world is truly something I'd never thought was possible.

**What help or information do you need that the club could provide to really get you involved with ham radio?**

I'd like to learn how to use more of the different controls my radio (and others) have. While I have read the manuals and of course watched videos I am more of a hands-on learner. I definitely can get by and function quite well with what I have learned so far but definitely would love to get more of a hands-on experience - especially when it comes to eventually hopefully using the radios within the club's radio room.



**Jeremy K2GRI**

**How would you like to become more involved with FLARC?**

I'd like to become more active as we come out of covid by hopefully attending events the club holds. Helping out at the FLARC Ham Fest helped me meet many of the friendly faces of FLARC and I look forward to meeting even more at meetings and in person soon!

Continued on page 39.

## **FLARC July 10, 2021 VE Testing Results**

With VE testing back on schedule, Gene WO2W reports the following results:

<b>Name</b>	<b>Call</b>	<b>License Earned</b>
<b>Stuart Ferreira</b>	<b>KD2WTB</b>	<b>Technician</b>
<b>Tristian L Diaz</b>	<b>KD2WTD</b>	<b>Technician</b>
<b>Luis G Diaz</b>	<b>KD2WTE</b>	<b>Technician</b>
<b>Hercules Couvielos</b>	<b>KD2WTG</b>	<b>Technician</b>
<b>John Russo</b>	<b>KD2WTI</b>	<b>Technician</b>
<b>Josh Chase</b>	<b>KD2WTJ</b>	<b>Technician</b>
<b>Kevin Lamasney</b>	<b>KD2WTK</b>	<b>Technician</b>

Testing for August will be indoors, at the Fair Lawn Amateur Radio Club - with "Covid Restrictions."

See page 2 of this Resonator copy, and also the FLARC website for the latest details.

## **Six Special Interest Groups [SIGs] Already Formed: Any Others?**

We may be in lockdown but there is no lack of club interest. So far, the Radio Monitoring Group has 18 members and we've started a Digital Voice Modes group thanks to KD2DRS and NP4H. There is also an FT8 SIG and a POTA SIG headed up by Noel W2MSA. And a DX SIG managed by John W2JLH. New, just formed - EmComm (Emergency Communications).

Other possible groups, from the member survey, include:

- *Radio Propagation*
- *Antennas and how they work*
- *Kit building*
- *Raspberry pi and Arduino*
- *Ham radio software)*

Anyone interested in leading any of these groups... ?  
Please contact Nomar NP4H.

**FLARC KAWFEE TAWKS**  
**The Speaker's Bureau**  
**For The Hudson Division!**

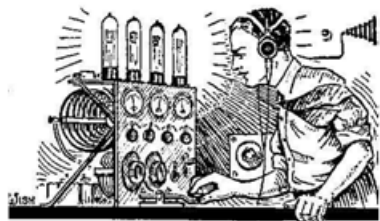


Image from May, 1926 QST, courtesy ARRL

## **The Way We Were** **By Fred Belghaus W2AAB**

### **The Story of Prisoner 16670**

*"[A concentration camp is] a place which was built for the negation of faith—faith in God and faith in man—and to trample radically not only on love but on all signs of human dignity; a place built on hatred and on contempt for man in the name of a crazed ideology. A place built on cruelty."*

*--Pope St. John Paul II [\*]*

On July 29<sup>th</sup>, 1941, a Polish citizen by the name of Zygmunt Pilawski escaped from the Auschwitz concentration camp. In retaliation for this escape, the Nazi in control of Auschwitz ordered that ten prisoners would be put to death as punishment for Pilawski's escape. [1]

One of the ten chosen to be killed was a young father by the name of Francizek Gajowniczek. Gajowniczek was distraught at this terrible news, fearful not merely for his own life, but more importantly, because he knew that his death would leave his wife without a husband and his young children without a father. His distress did not go unnoticed. Among the other Auschwitz prisoners was a 47 year old Polish priest, who was overtaken by compassion for him. This priest was known to the camp authorities by the dehumanizing name "Prisoner 16670." [2]

Prisoner 16670 was determined to do something on behalf of this man, but what could he do? He believed that the Nazis would probably never allow the young father to return to his wife and children. So what could be done? Prisoner 16670 knew that there was only one possible alternative. What that alternative was would prove to be one of the most courageous acts of charity known to human history. But before I tell you what that priest did, you need to know more about the man himself. Just who was this remarkable human being known as Prisoner 16670? How did he end up in Auschwitz, and what is his connection with amateur radio?

Prisoner 16670 was born in the Polish town of Zdunska Wola in 1894, when the Kingdom of Poland was still part of the Russian Empire. His father was ethnically German and his mother Polish. The English equivalent of his birth name was Raymond. His religious faith was so strong that at the age of 13 he enrolled at a Conventual Franciscan Seminary in the city of Lwow. [3] By 1910, he was given the

## The Way We Were, continued.

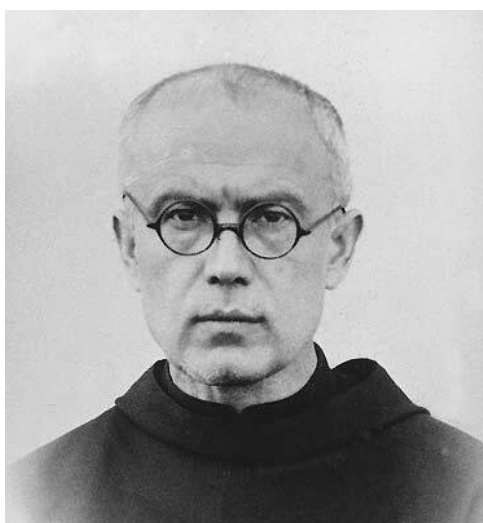
religious name Maximilian, and he took his final vows in 1914 in the Polish city of Krakow. His family name, which you may have guessed by now, was Kolbe. [4]

After a brief stay in Krakow, Kolbe studied in Rome, earning a doctorate in philosophy at the Pontifical Gregorian University in 1915, and in 1919, a second doctorate in theology from the University of St. Bonaventure.



He then settled in the monastery at Niepokalanow ("City of the Immaculata"), near Warsaw. His devotion to the Virgin Mary drew him to an organization called in Latin, Militia Immaculata, an organization opposed to the sometimes violent protests against the Church in Poland, and dedicated to non-violently defending the Church against its enemies. While a member of this group, Kolbe helped the friars publish pamphlets and a newspaper. But his calling to spread his defense of the faith would soon move in another direction. [5]

As a boy, Kolbe was fascinated by science and technology. One source [6] reveals that he often drew detailed drawings of aetheric planes (media in which electromagnetic waves were believed to be propagated in the early part of the 20<sup>th</sup> Century), [7] and compound telegraph systems. While at University, Kolbe excelled in Physics and Mathematics. His childhood interests, and University studies would ultimately develop into an interest in radio.



Father Maximilian Kolbe

Image: Auschwitz Memorial

## **The Way We Were, continued.**

In 1930, Kolbe traveled to Japan, India, and China, where he established monasteries. While in Japan, he met several persons involved with a network of radio stations. He had, by then, already been publishing pamphlets at the Niepokalanow monastery, and in Nagasaki, but his encounter with radio fuelled his interest in its potential to reach a wider audience. It was then that he decided to establish a radio station for this purpose. [8]

Upon Kolbe's return to Poland later that year, he applied for a broadcasting license. But only the government-run Radio Warsaw and the Polish military had official broadcasting licenses. It would be another eight years before he would realize his goal, but there remains an unsolved mystery connected with the license he obtained.

After speaking several times on the national Polish radio station, Kolbe sent one of the Brothers at his monastery, Manswet Marczewski, to radio classes sponsored by the Warsaw Amateur Radio Club. Another application was made to the government for a license, and after repeated requests, verbal approval was granted for a test transmission in October 1938. The antenna and facility were at Niepokalanow, and the transmitter was supplied by the Walter Company of Warsaw. [9]

The callsign received from the government was SP3RN. That certainly looks like an amateur call, doesn't it? It certainly follows the same format of an amateur radio call in 1938. But was it really an amateur license? Reportedly, the letters in the call stood for **S**tacja **P**olska **3** **R**adio **N**iepokalanow, [10] or "Polish Station... Radio Niepokalanow."

Checking my file of amateur radio call books from that period, there are no listings for the call SP3RN, so there is no way of knowing who the actual licensee was. Was it Kolbe? Was it Marczewski, who had taken the radio course on behalf of Kolbe? Was it licensed to the monastery? Or was it even a valid license? Nobody seems to know for certain, and there is no easy way of finding out at this late date. I and many others have also searched for a QSL card from Kolbe's station SP3RN, but nobody, anywhere, has ever found one.

The first transmission was on December 8, 1938; and regular transmissions began on Sunday, December 11<sup>th</sup>. The frequency was "close to the 40 meter amateur radio band." [11] Note that these transmissions were not IN the amateur band!



## **The Way We Were, continued.**

Here is the only known photograph of Father Kolbe at his station, SP3RN:



Father Kolbe at his station, SP3RN

Image: UY5XE [Note 12]

Note several things about this photograph. First, there is no receiver, only a transmitter. There is no telegraph key, and I can't be certain that Father Kolbe is holding a microphone or something else. In any case, the only other equipment on the desk that can clearly be identified is a phonograph. It is clearly NOT an amateur radio station — at least not one that communicates with other amateur stations. From the looks of the transmitter, it is very similar to a typical amateur transmitter of that period in the 50 to 100 Watt class; rather low power for a broadcasting station, which further adds to the mystery.

So we are faced with several mysteries about Father Kolbe's station, and unfortunately, there is a lot of misinformation and contradictory statements online about his role as a radio amateur. The *Wikipedia* entry about Father Kolbe, for example, includes several inaccuracies and some remarks that calumniate him. One thing is clear, however. Father Kolbe certainly was involved in the use of shortwave radio for broadcasting.

The SP3 calls were only issued to amateurs from about 1929 to mid-1933. By 1938, no SP3 calls were issued to amateurs, only SP1 calls. [13] Using the Spring 1939 Radio Amateur Call Book Magazine as a reference, only one SP3 call is listed, SP3AE, evidently issued earlier, and licensed to a Mieczyslaw Kapczynski in Warsaw. The

## **The Way We Were, continued.**

call sign of the P.Z.K. (Polish National Radio Club) in Warsaw was SP1ZK. That is probably the club where Brother Marczewski took his radio course. There is no call listed for Manswet Marczewski or Kolbe, so all we can do is make an educated guess about SP3RN.

In the absence of definitive data, it is most probable that the SP3 calls assigned in 1938 were “experimental” licenses, not amateur; and that as was the practice in those days, such calls were also assigned to shortwave broadcasters. Many of these calls looked like regular amateur calls. [14] That would explain why the call SP3RN does not appear in amateur radio call books during that period.

On September 19, 1939, Father Kolbe was arrested along with several other Brothers of his monastery, only weeks after the Nazi invasion of Poland. He and his fellow Brothers were released in December, and they continued their work at the monastery, which included housing some three thousand Polish refugees, most of whom were Jewish. They also published materials that were anti-Nazi. For this, the press was shut down, and the monastery suppressed. The Brothers dispersed, and Father Kolbe was arrested again and imprisoned in Warsaw in February, 1941. [15]

On May 28<sup>th</sup>, Father Kolbe was transferred to Auschwitz, and his body branded with his Prisoner number 16670. He was assigned to a work crew with other priests, and because of his gentle nature, repeatedly and savagely beaten by prison guards. One of those beatings nearly killed him, but he was smuggled into the camp’s infirmary building, and while recovering, he heard confessions. Upon his recovery, he was smuggled back to the camp area, where he celebrated Masses and offered communion using smuggled bread and wine. [16]

The beginning of this column covered events in July 1941, with the escape of prisoner Zygmunt Pilawski (another source says there were three escapees) [17] and the order given by SS-Hauptsturmfuehrer Karl Fritzch, deputy camp commander, to kill ten prisoners as punishment for the escape. One of those chosen to be killed, Francizek Gajowniczek, was greatly distressed – which prompted Father Kolbe to save the man’s life the only way he could — *by offering to exchange his own life for Gajowniczek’s*. The Nazis agreed to this act of self-sacrifice. [18]

## The Way We Were, continued.



Francizek Gajowniczek

Image: Auschwitz camp photo

Father Kolbe and the nine remaining men were forced to strip naked, then sent to damp, cold, underground cement cells where they would be deprived of food and water, and left to slowly dehydrate and die a painful death. While in their cells, the men passed their final days and hours in prayer and by singing hymns. After fifteen days, only three men were still alive, but dehydrated and near death from starvation. One of them was Father Kolbe. On August 14, 1941, the director of the camp infirmary [19] wasted no time in killing Kolbe by injecting carbolic acid into his arm. [20] The next day, Father Kolbe's body was burned in one of the infamous ovens at Auschwitz. [21]

On October 17, 1971, Pope St. Paul VI beatified Father Kolbe, and on October 10, 1982, Father Kolbe was canonized by Pope St. John Paul II, declaring him a saint and martyr. [22] Father Kolbe is officially the patron saint of drug addicts (because he died from lethal injection), prisoners (particularly political prisoners), families, and the pro-life movement. [23], [24]

Although Father Kolbe is widely considered the patron saint of amateur radio operators (and members of the media), there is no *official* recognition of these patronages by the Vatican. Because of Father Kolbe's death on August 14<sup>th</sup>, that date has become his Feast Day in the Roman Catholic Church; a day on which special prayers, Masses, and scripture readings are offered in remembrance of the saint.

What became of Francizek Gajowniczek, the man whose life was saved by Father

## The Way We Were, continued.

Kolbe's courageous act? Miraculously, he survived Auschwitz, and lived many years thereafter. He was present at both the beatification ceremonies of Father Kolbe in 1971 and his canonization as a saint in 1982. [25]

Father Kolbe is honored at many shrines throughout the world, including here in the United States at "Marytown," in Libertyville, Illinois. [26] One of the most famous is at the Jasna Gora monastery in the Polish city of Czestochowa, home of the "Black Madonna," where a dedicatory painting is included, depicting Father Kolbe in both his priestly cassock and his prison uniform at Auschwitz bearing his Prisoner number, 16670.

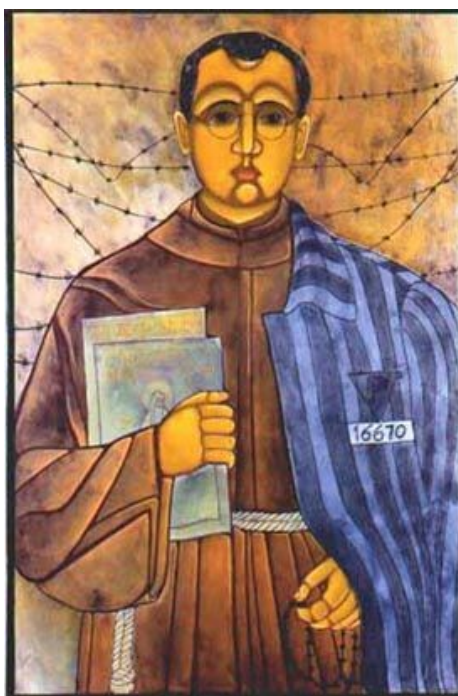


Image: Pinterest

Father Kolbe has also been honored on postage stamps. Here's one, from San Marino, commemorating the 80<sup>th</sup> anniversary of his death this year:



Image: <https://www.ufn.sm/en/cod-711-2021.html>

Here are some others, from Poland, Vatican City, and even Germany:



## The Way We Were, continued.



Images: Top Row #1: shutterstock; #2: colnect.com; #3: stampcommunity.org

Bottom Row #1: hipstamp.com; #2: eBay; #3: shamelesspopery.com

In the world of amateur radio, St. Maximilian Kolbe is well remembered with numerous special event stations. One online list shows special event stations established from seven DX countries, including a special activation of the call SP3RN, which is listed on qrz.com as “Saint Maximilian Maria Kolbe Patron for all Hams,” operated by SP7PGK in Lodz, and SP7PL in Skierniewice, Poland. [27]

There is even a net devoted to St. Maximilian Kolbe’s memory. Actually, there are three of them! [28] Here are their frequencies and schedule of operation:

Thursdays	0730 EDT	on 7195 kHz LSB (Net Control K9EYZ)
Sundays	2200 UTC	on 14341 kHz USB (Net Control WA5KBH)
Sundays	2400 UTC	on 3814 kHz LSB (Net Control K3QNT)

Even though “St. Max,” as he is commonly called, wasn’t really an amateur radio operator, his use of shortwave radio was inspired and noteworthy for those of us who

## **The Way We Were, continued.**

love radio. Were he alive today, no doubt he would have established a website, Facebook and Twitter accounts, and a YouTube channel to spread his message. Far greater respect, however, is due for his supreme act of self-sacrifice, in laying down his life to save another. I leave you with two quotes from this exceptional man:

*"Hate is not creative. Only love is creative."* [\*\*]

*"The most deadly poison of our time is indifference."* [\*\*\*]

I close with one final thought of my own:

*Any ideology that promises to make a heaven on earth without taking into account the fallen nature of mankind is more likely to make only a hell, complete with ovens, gulags, and gas chambers.*

Until next month,

73,

Fred W2AAB

## **QUOTE SOURCES:**

[\*] Pope St. John Paul II, original source: "Homily delivered at Auschwitz-Birkenau during the Apostolic Pilgrimage to Poland, No. 1, June 7, 1979." Quoted by Jessica Keating, "St. Maximilian Kolbe and the War Against Indifference," *Church Life Journal*, August 16, 2017.

[\*\*] Original source: Patricia Treece, *A Man for Others: Maximilian Kolbe, "The Saint of Auschwitz in the Words of Those Who Knew Him,"* (Libertyville, Marytown, 1982). Quoted by Jessica Keating, "St. Maximilian Kolbe and the War Against Indifference," *Church Life Journal*, August 16, 2017.

[\*\*\*] AZ Quotes, at: [https://www.azquotes.com/author/28180-Maximilian\\_Kolbe](https://www.azquotes.com/author/28180-Maximilian_Kolbe)

## The Way We Were, continued.

### NOTES:

[1] Murphy, Alyssa, "St. Maximilian Kolbe's Martyrdom Tells True Story of Sacrifice," *National Catholic Register (Blog)*, July 29, 2019, at:

[https://www.ncregister.com/blog/st-maximilian-kolbe-s-martyrdom-tells-true-story-of-sacrifice?gclid=CjwKCAjw8uGBhBAEiwAayu\\_9VKVZJz8VnW25q9nk2Demqzmz14piXJutkVTf6Y98gH3N8S\\_M2G\\_QuRoCd4wQAvD\\_BwE](https://www.ncregister.com/blog/st-maximilian-kolbe-s-martyrdom-tells-true-story-of-sacrifice?gclid=CjwKCAjw8uGBhBAEiwAayu_9VKVZJz8VnW25q9nk2Demqzmz14piXJutkVTf6Y98gH3N8S_M2G_QuRoCd4wQAvD_BwE)

[2] Neumann, Br. John, "Saint Maximilian Kolbe," *Catholicism.org*, October 7, 2004, at: <https://catholicism.org/maximilian-kolbe.html>

[3] Lwow: Pronounced "Lvov" in both Polish and Russian, was by this time actually called Lemberg because it was located in the German-speaking Austro-Hungarian Empire. It became Lvov again during the Soviet era, and following the Soviet Union's collapse, it went back to its original Ukrainian name, Lviv. My paternal grandmother was born there, when it was called Lemberg.

[4] Pettinger, Tejvan, *Biography of Maximilian Kolbe*, Oxford, U.K., quoted at: <https://www.biographyonline.net/spiritual/maximilian-kolbe.html>

[5] Ibid

[6] Keating, Jessica, "St. Maximilian Kolbe and the War Against Indifference," *Church Life Journal*, August 16, 2017, at: <https://churchlifejournal.nd.edu/articles/st-maximilian-kolbe-and-the-war-against-indifference/>

[7] Wikipedia article: "Aether Theories," at: [https://en.wikipedia.org/wiki/Aether\\_theories](https://en.wikipedia.org/wiki/Aether_theories)

[8] Zwolski, Henryk, SP9JPA, "St. Maximilian Kolbe (SP3RN)," *SP9JPA Blog*, at: <http://sp9jpa.blogspot.com/p/st-maximilian-maria-kolbe-sp3rn.html>

[9] Ibid

[10] Ibid

[11] Ibid

[12] Chliants, George, UY5XE, "SP3RN – In the Footsteps of a Legend Amateur," at: sp3rn.doc via link at: <http://hamgallery.com/Tribute/SP3RN/>

[13] Ibid

[14] See: "The Way We Were: When Broadcast Stations Had Ham Call Letters," *The Resonator*, May, June and July, 2020.

[15] "Saint Maximilian Kolbe," at: <http://catholicsaints.info/saint-maximilian-kolbe/>

[16] Ibid

[17] "Biography of Saint Maximilian Kolbe," *St. Maximilian Kolbe Church website*, at:

## **The Way We Were, continued.**

<https://www.stmaximiliankolbechurch.com/about-us/biography-of-saint-maximilian>

[18] “Maximilian Kolbe [1894-1941],” *Jewish Virtual Library*, at:

<https://www.jewishvirtuallibrary.org/maximilian-kolbe>

[19] Neumann, Br. John, M.I.C.M., Tert., “Saint Maximilian Kolbe,” *Catholicism.org*, October 7, 2004, at: <https://catholicism.org/maximilian-kolbe.html>

[20] *Jewish Virtual Library*, Op Cit.

[21] “Saint Maximilian Mary Kolbe,” *My Catholic Life*, at:

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## Around the Shack

Hal Kennedy N4GG/4

### Dangerous Deeds

I've written many "Around the Shack" columns that required research on my part. I enjoyed those.

I enjoy learning. I enjoy teaching. I enjoy story telling.

As I began writing this month's column I was badly pressed for time. I needed a subject I knew all about. Something that required minimal research yet would be interesting and of value to readers. I found the perfect subject. A subject I can write about straight out of my head. The title is: **Dangerous Deeds**, but it could just as well have been: *Stupid, dangerous and bonehead things I have done in 60 years of ham radio.*

Without exaggeration, I am lucky to be alive, have all my limbs, sight in both eyes and not be in jail. I have had a lot of dumb, high-risk ideas that I went ahead and put into practice. Some of them are embarrassing to commit to paper. I'm writing about them here, hoping I can help someone avoid my mistakes. If I do, I will have done a good deed.

What follows is a list of dangerous and dumb things I have done. It's in random order (just like these month-to-month columns are) except for the last item. Skip to the end and read the last one if you get bored.

Here are my dangerous and dumb ham adventures:

### Climbing

The sea belongs to fish. The air belongs to birds. Humans are land animals. When we scuba dive or climb to erect antennas we are leaving our domain and entering someone else's. People can't fly, but they sure can fall. As an early teenager I climbed trees. I fell out of a few too. By the time I was late into my teenage years I was climbing my own and others' towers – using nothing more than my pants belt as a safety belt. Wow was that dumb. Every year, without fail, I read of one or more tower related deaths within the ham community.

The answer to this is to do as the professionals do, although even they get into trouble, albeit less frequently than hams.

If you are tower climbing, have the correct gear and don't take a chance on anything less. You need a hard hat, gloves, steel-toed boots, a proper safety belt, a fall arrestor, a second safety line so that you are always tied to the tower with at least one line, a deep tool pouch, a partner and some training.

You probably know this, but **DO YOU DO IT?**

## **Around the Shack, continued**

The risk towers (and sloped roofs) pose is at least recognized. A risk area we often minimize or fail to recognize is flat roofs. Erecting a VHF vertical on the flat roof of your EOC building seems safe enough until you fall off the edge.

Another climbing issue is the condition of towers or anything you might want to climb. Towers rust and become unsafe. Tree limbs rot. Walk away from anything that looks unsafe. Guy wires deteriorate and a surprising number of towers have not been properly installed to begin with. I have seen towers guyed with white cotton clothes line - no kidding.

An illuminating story: Some years ago I asked a friend who climbs ham towers for a living to share his worst "horror story." He was hired to take down 30 feet of Rohn 25 tower. That's an easy enough task. The tower had a concrete base and was up against a house. It had a house bracket helping secure the tower although the owner said that was overkill – the concrete base was a foot thick and more than sufficient, particularly since the antennas had been removed. The house bracket was removed to facilitate disassembly and the tower fell over with my friend at the top. The "one foot thick" concrete base was about one inch thick. The result was a few days in the hospital.

If hanging wires from trees is your thing, a "potato cannon" or "tennis ball cannon" is the tool of choice. Don't climb trees. Slingshots are an iffy choice. The risk to avoid in all cases is to pull a snagged line back toward yourself. You can load a lot of potential energy into fishing line. When the weight at the far end breaks free, the potential energy becomes kinetic energy heading straight for your head. I know a ham in the Mid-Atlantic who lost an eye this way. I once broke a window (directly behind me) this way. Never pull a line back with more than the minimal force needed to nudge it over a small branch that's far away.

## **Exploding Capacitors**

Only the intervention of providence has kept me from serious injury from exploding capacitors. I've experienced two incidents, separated by 50 years. Both had potential catastrophic consequences. In 1962 I built a 150 watt linear amplifier as described in the April, 1961 QST. It was designed by Lew McCoy – a name familiar to old timers. I was a kid with no money at that time. My "parts supply room" was junk TV sets at the local landfill. In pre-politically correct days the landfill was called "the dump." My amplifier's power transformer and power supply filter capacitor were landfill parts. My DIY amplifier had about 550 volts on a 450 volt rated electrolytic filter capacitor.

It seemed to work fine and I spent a lot of time with my face inches above the parallel 807 tubes in that amp and, of course, directly above the filter capacitor. Through sheer luck, I was 20 feet away from that amp when the filter cap exploded. What

## **Around the Shack, continued**

I mean by exploded is **EXPLODED**. The outer aluminum can turned to shrapnel. The guts of the capacitor (hot tar and who-knows-what) shot around the room at high velocity. My new amp and the ceiling of my attic ham shack were covered with molten goop. Geeez.

Using electrolytic capacitors above their rated voltage, or hooking them up in reverse, is reckless. Mayhem is sure to follow.

Also, electrolytic capacitors change with age. Sometimes gracefully and sometimes not. The changes can be subtle. The amount of capacitance usually drifts downward and 'out of spec' over time and that goes unnoticed. Eventually however, all the capacitance is gone and the capacitor behaves either as an open circuit or a resistor. Past the end of life, most of them vent. If not in use they may simply leak (goop, not current). If in use they may perform an instantaneous "come-apart."

Whether in use or on the shelf, electrolytic capacitors more than 30 years old should be replaced. They should not be powered up. They should not be "aged" or "re-formed" by bringing them up slowly on a Variac. Personally I find the notion of "re-forming" old capacitors to be a fool's errand. It rarely works, doesn't last long if it does and results in a wholly unreliable component in use where a new one costing a few dollars could be in place. Just... replace... them! Some (but not all) can-style capacitors of a bygone era had pressure relief blow-out plugs in the base, to vent pressure before the case exploded. Why do you suppose they put those there? In my experience those blow-out plugs did not always work.

My second bad capacitor experience happened in 2010 while I was building my replica 1910 spark transmitter. Spark transmitters include a high voltage capacitor that must handle pulses of 1,000 amps or more. I found some 50 KV caps at a hamfest and used those during early bench testing while discovering the ancient arts. One of those capacitors let go just like the one had in 1962. High velocity hot goop shot across the garage and splashed against two walls. Once again I was 20 feet away and very lucky.

It's rare that hams build spark transmitters anymore, but high capacitor current shows up in a variety of applications and, like excess voltage, excess current can destroy a capacitor and potentially imperil the owner. In-rush current at power-up is one example of this.

Many hams these days are into refurbishing "boat anchors." Vacuum tube gear always has a high voltage power supply and electrolytic filter capacitor(s). These have the same potential to explode as mine did in 1962. In fact, some of the ones you will find in boat anchor gear were made around 1962. When firing up boat anchor gear for the first time in decades, it's a good idea to do it from a distance, particularly if you are insistent on leaving the old capacitors in place. This is a good segue to the next section about my bad practices.

## High Voltage

A little knowledge can be a really bad thing and familiarity breeds contempt. I've repaired countless linear amps and home-brew-built several. I feel comfortable working around the 3 to 4 KV B+ supply in vacuum tube amps. I have troubleshot amps with the covers off and the interlocks jumped out since the 1960s.

I strongly recommend against doing this. I will probably keep doing it. My attorney has just advised me to explain that that last sentence was not a subtle wink to tell you that while it's not according to Hoyle it's probably an okay thing to do. **It's not.** Somebody has to climb towers and somebody needs to repair amps, but if you have not acquired the full skill set and tools, DON'T DO IT.

The ARRL Handbook implores you to keep one hand in your pocket when working around high voltage. That's valuable advice. Better yet is to have both hands in your pockets and be several feet away from anything you are about to power up with the covers off. I have been good about following that last piece of advice, which is why I'm still here. I can't recall a single troubleshooting test I've run where I could not place the measurement leads (scope probe, voltmeter, etc) where they needed to go with the power off, step back 5 feet and turn the power on. It takes a little more time to do this the safe way. It's time well spent. The exception of course was my 1962 exploding capacitor DIY linear. It had no covers and no interlocks. All I can say is I was young and stupid.

It's rare anymore to find an amateur experimenting with high power amps using tubes that operate at very high plate voltage, but that was not always so. Tubes exist that are rated for, and perform best at high plate voltage. Also, there are a few of us who still might be inclined to work on such gear. It's a really bad idea to head north of about 4 KV. In addition to the chance of electrocution going up as voltage goes up, at 10 KV and higher some glass vacuum tubes emit X-Rays. High voltage systems also produce ozone, which is carcinogenic. High current arcs (intentional or unintentional) produce UV light at levels that can be unsafe to eyes. High voltage is not your friend.

Fortunately we are well into the low voltage solid state era.

## Soldering

This is mostly a good news story. I began soldering (and "artistic" wood burning) around age five. 68 years later I am still soldering. I'm guessing I've averaged well over 100 solder joints a year. That's 6,800 solder joints. Some years I built Heathkit, Eico and E.F. Johnson kits having 600 or more solder joints in a single kit. After all that soldering, I have no scars to show for it. I've burned myself countless times, but it always seems to heal up. The soldering pencil I currently use self-regulates at



480 degrees C (900° F). That's well above the threshold for third degree burns. I think the secret to avoiding permanent scars is to let go fast. Don't check me on this.

My concern about soldering has always been triggered by scraping solder splashes off my eyeglasses. All hams solder things. All hams do not use eye protection for this seemingly mundane task, but they should.

## Setting fires

N4GG is a "wires-in-the-woods" ham station. It's also a "full-legal-limit" ham station. I've worried about setting the woods on fire, which would be an event with horrific consequences. I came very close to doing it about a year ago.

One leg of my 80 meter inverted vee came into contact with the 300 ohm transmission line to my 20 meter dipole. I was head-down deep into a contest at the time and did not immediately notice the telltale SWR changes. When I did, I headed outside, in the dark, and saw the 300 ohm line on fire about 30 feet above the ground. The fire was slowly working its way up the line to the supporting trees. The word terror comes to mind.

I was able to extinguish the fire by vigorously shaking the line from the ground. It's easy to set fire to 300  $\Omega$  and 450  $\Omega$  ladder line and fortunately, it's easy (sometimes) to put the fire out with the air current created by shaking.

Had I not gone outside when I did, I might be fighting lawsuits from my jail cell. The woods out back is part of Lake Allatoona's watershed, with countless subdivisions nestled in. Under drought conditions, I could have set a 10,000 acre blaze.

The polyethylene jacket covering 300 ohm and 450 ohm ladder line burns slowly. I have used that property to advantage. To make a connection, I've stripped the end of ladder line by setting it on fire. It burns about an inch every 30 seconds and you can easily blow it out. You can get a perfect result stripping balanced line this way if you pay attention to what you are doing (away from the woods!). This may or may not be in the bonehead category. My familiarity with extinguishing intentionally lit transmission line helped me put it out when it really counted. ADVICE: Stay completely away from all of this; it gives me the creeps just thinking about it.

The woods out back keep changing. Limbs fall. New ones sprout in unwanted places. Dry leaves fall onto wires in the fall. The wind breaks wires and insulators. The new procedure at N4GG is to never operate at KW level without first inspecting the antenna farm. Every time. Are all the wires away from trees and not about to touch each other? A prior "Around the Shack" column titled "QRO Considerations," listed the voltages and currents that can occur at 1,500 watt power operation. It's also covered in my book: Ham Radio Tips and Tales. Those writings explain just how high the currents and voltages can be, but don't say much about the hazards posed and what to do about them. For starters, don't set the woods on fire.

## Power Lines

I've done a good job keeping masts and wire antennas away from power lines, but the same can't be said for some of my friends. I operated a station in the Caribbean that had an 80 meter dipole strung above and across a 14.4 KV high-voltage transmission line. Noticing it, I asked about it of course. The situation greatly reduced my desire to operate that station despite the long trip to get there. The owner assured me it was safe. The antenna was made of stainless steel wire and "would not break." I did wind up operating, with deep misgivings. I would not do that again. I have not been back.

Like tower accidents, I occasionally hear of electrocution due to masts touching power lines. I know I am preaching to the choir but I am mentioning it because it keeps happening.

A side story: Near my condo in Florida a boater was trailering his sailboat out of the parking lot of the local Ramada Inn. The sailboat mast touched power lines at the street. Two people died.

## RF Safety Thresholds

This is the must-read section. Paul Evens, VP9KF, has placed a valuable tool on the web. It calculates the RF field-strength for a given power level, given frequency and given antenna gain at a given distance from the antenna. The FCC now requires amateurs to make this calculation and adhere to rules regulating maximum exposure levels. How many of us are doing this? It's easy to do with Paul's tool. Just fill in the blanks.

Here is the link to Paul's web tool: [http://hintlink.com/power\\_density.htm](http://hintlink.com/power_density.htm)

Here is a real-world case at N4GG:

Power:	1,100 watts
Antenna Gain:	4.5 dBi
Frequency:	50.313 MHz (The six meter FT8 frequency)
Distance from the antenna:	10 feet

Results:

RF power density:	7 mW/cm <sup>2</sup>	
FCC requirement:	< 1 mW/cm <sup>2</sup>	in a controlled environment
	and < 0.21 mW/cm <sup>2</sup>	in an uncontrolled environment.

Ten feet from the 3 element six-meter Yagi at N4GG the field strength is above the FCC's safe limit specs by a factor of 7 and a factor of 21!

How far from the N4GG six meter Yagi would you need to be, to be compliant with the FCC specs? It's 26 feet for the controlled environment case and 58 feet for the uncontrolled environment case.

The options should be obvious if you are non-compliant. Run less power, reduce your antenna gain or stay further away from the antenna. At N4GG I have been non-compliant on six meters by a wide margin. I'm in the process of fixing that and QRT until it's fixed.

I'll stop here, as the subject of RF exposure deserves an "Around the Shack" column of its own. Meanwhile, please take this subject seriously. RF is hazardous to your health and you can't detect the deleterious effects as they are happening. The risks go up as frequency goes up.

In closing, it's embarrassing to note how many words it's taken to describe my dangerous deeds.

73,

Hal N4GG

— • • • —

### The Reward for Contesting





# VANFEST 5

## VANFEST 2021

If it must be Vanfest it must be the Sussex hamfest. Or is it the other way around?

Anyway, July 18th was the occasion of the 5th annual (last year doesn't count) at the QTH of Van W2DLT in beautiful Lords Valley, PA.

With about 20+ hams and XYL's in attendance, it was a great day and some great conversation, a foxhunt, and some setup work for Van's Flex.

Social distancing was in order and a good time was had by all.

Thanks, as always to Van and Lori for their hospitality. See you next year!!



N2AAM, AC2ZU, KD2KLN, W2ABE and W2IRT



AC2ZU, N2OEL and N2SU



The group



W2ABE, KC2LTM and W2KBF



**Ed - itorial: Field Day Reconsidered****– by Ed WX2R**

Field Day 2021 has come and gone. As many of you may have noted from the picture in the last issue of *The Resonator*, our Field Day site was as cold as a witch's tomb Saturday noontime near the start of this year's event. A bit of rain added to the gloom.

Being at the site in person gave me a rather empty feeling. The state's mandates regarding COVID-19 had been predicted in advance and then lifted. There *was* time to put a site together; as someone mentioned at the May meeting, isn't this what emergency communications is supposed to be about? Other local clubs (BARA excepted) were doing an event station by a quick check of the FD Locator. Perhaps we were a bit hasty in rushing to judgment.

Later the following week, I caught up with some of my colleagues on the ARRL PR committee and asked them about operating FD under this and prior year's conditions. The short answer was that everyone from Connecticut to South Carolina to Florida to Colorado all operated this year in the field. Interestingly, none put up a tent. Most used a pavilion for cover or were in the open. What if it rained? For my Fair Lawn colleagues, the answer was simple—cover the gear and shut down.

If it worked for others, what was our concern? We are fortunate to have a pavilion to operate in open air. Was it the lack of a tent for cover or fear of one because of the virus? Or maybe was it the lack of a preparedness SOP to make FD easier to set up on short notice? Or was it a lack of volunteers on short notice to make it happen? Since we did not ask, we will never know.

Since FD weekend, I have thought a bit more about the event, especially after reading a lot of blogs and social media about participation during and despite the pandemic. I have concluded that, for me, FD will never be the same for three reasons all centered around operating either from home or some form of hybrid:

**Ed - itorial, continued.**

- Rules changes over the last two years make it a somewhat different event. There were a lot of complaints last year of course, and many this year. Change is change.
- It is no longer about EMCOMM. FD for me has now become just a contest despite my protestations in previous years. And it reminds me of my colleagues who tell me that EMCOMM would never rely on FD protocol to operate in an actual emergency. Maybe they are correct. I give up.
- Third is about the event itself. FLARC has now had two years without in-the-field club participation. Those who "played" individually this year would have probably operated collectively anyway. But FD is important to a club's overall DNA. It is the focus of a club's calendar year. It is both social and practical camaraderie. Most importantly, it is about *habit*. You cannot under-estimate the importance of habit. It is why you do things from overeating to smoking to following the news. When habits are changed or broken, so do behaviors. One year without an event driven by lockdown was an aberrant but accepted data point. Two years of non-activity, when there were non-constrained workaround's, will undoubtedly have consequences. The July meeting notes stated that "2022 ARRL Field Day is already under consideration." Let us hope so.

So, if you operated from home, I hope it was fun. If you did a POTA activation, even better – for as one blogger noted: "It's like Field Day every day."

Aggregating the points to FLARC seems like participating in a contest but which is not really FD. For me, FD is the collective experience of an event done together and the fun and challenge it entails. I hope it can be like it was before COVID-19, but I think it will not.

For after all,  
change is change.



## Digital Voice Special Interest Group Update

DigiVoice@FairLawnARC.groups.io

A Special Interest Group SIG for those interested in Digital Voice modes (Digital Mobile Radio) communications and software.

### Radioddity GD-77 HT –

There has been a substantial rewrite of the amateur radio version of the software for this DMR handheld radio. As a result there is a different procedure when you initially install it.

**IMPORTANT:** read the file **readme.txt** in the zipped directory for information and a list of all the changes.

If anyone has any difficulty and requires help, just contact Dave Marthouse N2AAM at

[dmarthouse@gmail.com](mailto:dmarthouse@gmail.com)

All changes from the 2 June 2021 release have been merged with the official OpenGD77 release on 1 June.

***This requires new CPS software to load the new firmware as well as new voice prompts.***

There is a new procedure to update your radio, which involves obtaining the official Radioddity firmware which is then merged with this new ham firmware using the CPS software.

**Warning, Warning, Warning -- the old CPS software, .sgl files and voice prompts cannot be used with the new procedure.**

This change was made necessary by the recent licensing issues, which resulted in a major rewrite of the firmware and the procedure to update it.

For all the new files and instructions, visit the FILES area of the DigiVoice SIG at

<https://fairlawnarc.groups.io/g/DigiVoice/files/Open%20GD-77>



## Radio Monitoring Special Interest Group Update

monitoring@FairLawnARC.groups.io

A Special Interest Group SIG for those interested in SWL and other radio communications monitoring.

On Friday August 20 the monitoring group of FLARC presents a special guest during our *Kawfee Tawk* series.

Our guest will be Larry Van Horn N5FPW.

Larry got his start in the radio hobby in 1964. His parents gave him a Hallicrafters S-120 tube type shortwave radio, for Christmas that year.

In 1971 he joined the U.S. Navy and served on a variety of U.S. naval warships and in the naval aviation community until his retirement in 1993. He retired in New Orleans with the rank of Chief Petty Officer.

He was first licensed as an amateur radio operator in 1973 with the call sign WH6INU. Later, Larry upgraded to General Class and spent his early ham days operating out of the world famous KH6SP ham shack in Pearl Harbor, Hawaii, chasing DX and contesting.

A licensed Extra Class ham, holding the call sign N5FPW, Larry enjoys operating QRP (low power), using CW and digital modes, contesting, and chasing DX. Other aspects of the radio hobby that he enjoys including monitoring military communications (throughout the radio spectrum), federal government monitoring, chasing HF utility communications, satellite monitoring, and AM, FM, and TV broadcast DXing.

Larry worked for Grove Enterprises, the publisher of Monitoring Times magazine, for 20 years. His job on the MT staff was the magazines assistant / technical editor and staff journalist. He wrote for Monitoring Times magazine as a freelance writer and full-time staffer for over 30 years until the publication closed. He was also the creator and managing editor of Satellite Times magazine, another Grove Enterprises publication that was published for over five years.

Continued on page 39.

## New Member Profile, continued

**What else can you tell the club about yourself and/or ham radio?**

So a little more about me... I have been involved in EMS for over half my life (started riding an ambulance at 15 and have since turned it into a career now at the age of 34). Once I turned from volunteering into a career in EMS with FDNY (although I do still volunteer regularly) I moved up from EMT to Paramedic, and now work as an EMS Supervisor.

I also teach CPR and First Aid classes outside of working in EMS, running a small side business that travels to people's homes to help them learn how to save a life. I enjoy being active and learning new things both in radio communication and just in general. Keeping active and always learning has been something I genuinely believe is important in life. After all, we are never done learning!



This accounted for half of a full duplex path that was necessary to make the call. To receive the other side of the conversation there was a receiving site in Netcong, NJ that handled the signals from the UK.

All this was done using frequencies ranging from 6 through 23MHz. The antennas used were mostly rhombic and the power was typically up to a maximum of 10 kilowatts.

The last of these HF phone circuits disappeared in the early 1970s when the migration to cable and satellite was completed.

73 and good DX.

Dave N2AAM

## Radio Monitoring

### Special Interest Group Update, cont'd

He has written radio equipment reviews and several monthly columns in the pages of Monitoring Times including the Signals from Space, Utility World, Fed Files, Milcom, First Look Equipment Reviews and What's New columns.

Over the years Larry has also pinned nine radio hobby books, dozens of magazine features, and numerous technical articles for a wide variety of communications publications and radio hobby club newsletters.

Larry is the co-founder and president of the Teak Publishing Company.

The presentation will be on Zoom and log-in information will be on the usual FLARC groups.io lists.

Non-members of FLARC are invited as well so please spread the word.

In my last article I looked back to HF monitoring during the World War II era specifically the Sigsaly system. This generated a bit of interest and I have been asked a few questions about related topics, specifically how were international phone calls handled when everything was on HF circuits.

Let's say the year was 1941 and you wanted to call the UK from the US. First, everything was "manual" in other words you had to "book" your call through the operator. The operator would contact the overseas operator and place the call. The operator in New York would plug in to a direct HF circuit to the UK.

This circuit consisted of a transmitter located in Lawrenceville New Jersey that used independent side band. This meant that two out-going conversations could happen at the same time, one on the upper sideband and the other on the lower sideband.

At the UK side of the path the Brits would have their LSB receiver tuned to your transmit signal.

<<===== Continued in left column.

## What Is It? – Answer To Last Month's Question

By: Fred Belghaus W2AAB



Image: etsy

If you said it's a solenoid coil (with a pair of diodes), you'd be right, but how is it used? In a pinball machine. This particular solenoid is used in a Williams Electronics solid state flipper bat unit. Here's what the flipper bat assembly looks like:



Image: eBay

Not so simple, but interesting. Thanks for playing.

73,

Fred, W2AAB



**What Is It? – April, 2021**

**By: Fred Belghaus W2AAB**



Image: etsy.com

Hmm...these look like a box of peppermint hard candies, only they're not.  
Can you identify what they are, and more importantly, where they might be used?

What they are should be easy to answer, but where they're used, probably not.

73,

Fred W2AAB

## Neil Goldstein W2NDG Explored the Kit Universe in July FLARC *Kawfee Tawk*

With a crowd of 33 in attendance, Neil Goldstein W2NDG lead a lively discussion on July 16<sup>th</sup> into the world of kit building and how to build your own radio.

In an hour-long presentation, Neil outlined the vibrancy of today's kit market from the simplest of how-to and building your first AM radio and / or keyer to building sophisticated transceivers and test equipment. There are seemingly more kit manufacturers today than ever before, from across the globe.

The keys are desire, patience, and an increasing skill level with a knowledge of electronics.

The biggest hints for me were making sure you understood what you were going to build and making sure that, as a beginner, you bought more "than a bag of parts and a schematic". Some kit manufacturers produce exquisite instructions and those should be your guides until you become more confident and proficient. See Neil's website for more information... **[radiokitguide.com](http://radiokitguide.com)**

Lots of good questions were part of the presentation and it became apparent that this was a much-needed club topic.

I ran into Neil at Sussex the next day and we agreed it was a fun and profitable evening. It was also great to see a non-Zoom face for a change!!

DE Ed WX2R



Neil W2NDG

## Barry Feierman K3EUI told us about "EMCOMM and Digital Modes"

Barry Feierman K3EUI once again presented a fantastic *Kawfee Tawk* program to an audience of 36 on July 23rd, covering the topic of "EMCOMM and Digital Modes." [EMCOMM = Emergency Communications]

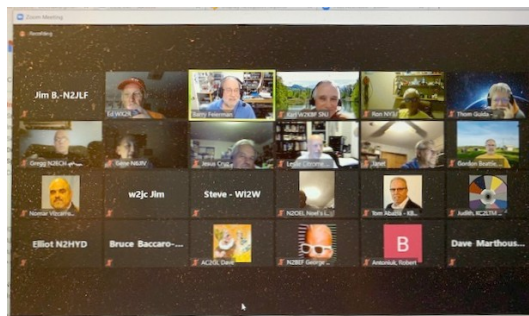
He made an effective case for the use of Winlink VARA Gateways for emergency communications – outlining the who, what, why and how it works with a real-time demonstration with Ron NY3J from their eastern Pennsylvania QTHs on 80 meters. Many on the Zoom call were also able to listen in on HF while on the call and came back with 59 signal reports. The main emphasis of the presentation is that VARA gateways are a very efficient form of communication offering high speed data transfer across many modes with high accuracy. (And the dashboards are way cool as well).

Barry also discussed the use of FLDIGI, which is superior to VARA in doing "one to many" correspondence. He also weaved in the use of PACTOR, which is less prevalent today due to technology innovations and cost of hardware acquisition and maintenance.

The 90 minutes+ presentation offered some high-quality discussion and questions and had fine contributions from both club members Karl W2KBF and Gordon W2TTT frequently during the show.

A postscript was that Barry was able to find a Gateway in NNJ (Short Hills) and was testing it the following morning (Saturday July 24) for us at 6:30 am; at that early hour there is not a lot of activity on 80m. The Gateway station is John AC2SV operating on 3590.2 MHz (VFO, upper sideband)

Barry noted that it was a pleasure to speak with FLARC via Zoom and he is looking forward to a return talk in the Fall on the topic of "Nano VNA" - which will be very different from the previous talk our club heard during 2019.





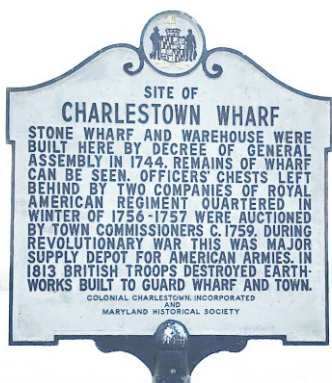


## FLARC PortableOps SIG

PortableOps@FairLawnARC.groups.io

This is a Special Interest Group (SIG) for members interested in portable ham radio operation such as POTA, SOTA, IOTA, LOTA, etc.

The purpose of this SIG is to get outdoors and practice our operating skills from different places. We can share outing experiences, tips and work on our operating skills.



Steve WI2W on Aug. 1, 2021



## Report from Portable Ops SIG, cont'd

### FLARC in Puerto Rico

— Nomar NP4H

On July 5th, I went to Puerto Rico to take my Mom, NP4YL back home after 18 months of being here with me in NJ. It was bittersweet, but she wanted to return back home and get back to her "normal" routine.

So, I went back to take her to the Island, which meant taking a few days off and having some ham radio fun while at the Island. My Brother from another Mother, Danny WP4F told me that while I was there we should set up a POTA (Parks on the Air) activation somewhere and we should do it on my birthday, July 10th.

So, I told him to figure it out and I was in. Well, he rounded out a couple of friends and we decided to go to Cerro Gordo State Park (K-7557), which is located in Vega Alta. It is administered by the National Parks Program of the Department of Recreation and Sports of Puerto Rico. Located along the north coast of the island in the town of Vega Alta, it is approximately 35 minutes from San Juan. Along with Danny WP4F, we also had joining us on the activation Osvaldo KP4OSP and Jose K1OFO.

We arrived early and set up the station, which consisted of a Cushcraft D3 Rotatable Dipole, Dual Band VHF/UHF Vertical, Yaesu FT-891 and Dual Band HT for local QSOs.

We started the activation a little bit before noon and everything was working perfectly. Good conditions on the bands, good weather (at that moment) and an excellent view at all times.



Close to 1:00pm, a cloud got over us and the rain started. We needed to stop for a while as it got heavy.

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## Report from Portable Ops SIG, cont'd

Good thing we were under a nice cover, but the equipment needed to be protected for a while. After maybe an hour, the rain stopped and we were able to continue our CQ POTA calls.



We did 60 QSOs and it was very nice to contact Ed WX2R, Steve WI2W and Noel W2MSA — my FLARC Brethren.

Also, which was a treat and always nice, we had several contacts on 10 meters. It was a wonderful afternoon of Ham Radio in a beautiful location. Couldn't ask for a better day to celebrate my birthday – enjoying the best hobby in the world.



K1OFO & KP4OSP prepare rotatable dipole & vhf/uhf vertical

Thanks to Danny, Osvaldo and Jose for a fun and successful activation. Once we finished, Our chef KP4OSP prepared lunch, and the hot dogs were

## Report from Portable Ops SIG, cont'd

served. I'll be going back to Puerto Rico for Labor Day weekend, so hope to do another activation and work again some of the FLARC family members while I'm there. 73!



NP4H, WP4F and KP4OSP



WP4F, K1OFO & KP4OSP set up the antenna



Danny WP4F trying out the antenna on 20 meters



## Fair Lawn RACES/ARES Corner, cont.

The NJ2BS Repeater info is:

RX 146.835 MHz / TX 146.235, PL Tone 151.4 Hz  
Echolink KD2BKD-L.

FL-ARES would like to thank the FLARC for the use of its repeater as well as the Venture Crew 73 73 Club for the use of their repeater. We are fortunate to make Fair Lawn and the surrounding communities our home. With our leadership and support from the FLARC we can grow and be of assistance in many community events. We are always seeking new members to join FL-ARES. Info on FL-RACES is as follows:

Our next FL-RACES KB2FLR net will take place on Wednesday, August 18th at 2030 hours on the Fair Lawn ARC Repeater as well as the NJ2BS Repeater (frequencies noted above).

Thank you to the Fair Lawn Amateur Radio Club for permitting FL-RACES to use the repeater.

FL-RACES is part of several RACES groups which operate within Bergen County and from time to time has training opportunities with Bergen County RACES. We will be the Net Control Operating Station once again in November. We are looking for a Net Control Operator and Scribe for the next time we host the BC RACES Net. Thank you to those who have taken part as the Net Control Station in the past.

Our monthly briefings take place soon at the FLARC, in person!! Stay tuned. Please join us for the next FL-RACES briefing which takes place after the FLARC Business Meeting. The volunteer efforts of our members are very much appreciated. If you are interested in joining the Fair Lawn RACES, please contact me. Anyone who's a licensed amateur radio operator may join Fair Lawn RACES and there's no residential requirement. For information regarding Bergen County RACES, please go to

<http://www.bcnjraces.org>.

Please be safe and be well. Thank you very much.

73.

David KD2MOB  
Emergency Coordinator FL-ARES and  
President FL-RACES

## From The President, continued.

July 31st and August 1st, presented by FLARC. Many had asked for us to have one of these classes and Bill graciously said yes. We had 8 attendees, out of which 7 passed. We would like to welcome them to the Ham Radio Family.

Also, our gratitude to our Past President Brad KM2C, who came in to the club and updated our computers after over a year of being idle. He also updated the firmware/software on our Flex Radios. Brad, we know you are busy, but appreciate the time you give FLARC whenever it is necessary.

This month, we will have two great *Kawfee Tawk* presentations. Check this month's Resonator for more details. (Three next month!) Remember, when there is a *Kawfee Tawk* scheduled on Friday, the club will not be opened.

Also, the SSB North American QSO Party will take place on 8/21 and the W2NPT club station will be in the contest. You want to participate with us? GREAT, reach out to Van, W2DLT for more information and to let him know you wish to join in the fun.

We're working on more things for all of you here at FLARC, so stay tuned. We want to make the second half of this year full of great things for the membership.

Take care, stay safe and healthy and I'll "see ya" on the radio"...

73,

Nomar NP4H

FLARC President



## Theoretics Demystified

Magnetos, dynamos and generators/alternators, Oh MY!! But first some other eclectic technology, in this case the old stuff.

First did you ever hear of a soldering brick? Well no? what it was in the old days of old huge soldering irons, and I do mean irons, was a set of soft bricks one hollowed out with one end deeper than the other where the end of the hot iron rested and at that end was a chunk of sal-amoniac which was used as an aid in tinning of the iron.

This was again at the deeper end of the pond so to speak, therefore the iron was submerged in the pond of the liquids plus the tinning agent. The pond consisted of a layer of molten solder on the bottom, the sal-amoniac at the deep end and the iron was covered with the then liquid rosin which acted as a flux. The bricks were soft bricks and therefore one of them could be hollowed out so the iron could sit in it, that is the business end while the part of the shaft of the iron and the handle with the cord and plug was resting on the second brick.

The iron had no temperature control and therefore if the rosin started to smoke, the iron could be pulled out and unplugged to cool off. This was long before the days of rosin core solder.

I have such an iron and was able to use it to tin and solder together a lighted cross that was made in the 20's and was in pieces and needed to be soldered back together. Needless to say the iron was quite big, almost 20" in length and quite bulky. It had the old style electric cord like the old clothes irons and heaters of that time.

Getting back to the magnetos and dynamos again. What is the difference? Magnetos, like the ones in old phones, had an armature with a commutator and some type of brushes - but not generally of the carbon type. Most often the 'brushes' were made of some type of spring steel and had enough pressure to make a reliable contact with the commutator.

Aside from that magnetos had permanent magnets instead of a field coil to provide the

## Theoretics Demystified, continued

magnetism needed so that the rotating armature winding could 'cut' the magnetic lines of force and as we know moving a conductor across magnetic lines of force produces current electricity in that conductor. The rotating armature coils were then contacted at the right time so that the output was a steady flow of direct current.

Since there were only generally horseshoe magnets involved the magnetic field was not very strong, so that output though high in volts (60 to 90 or so), but not very robust in the current department.

Just to digress, voltage is the difference of electrical potential when compared to no flow of electrons in the conductor, and amperage is the amount of electrons available to do the work. [that is an over simplification, but you get the picture].

So consequently magnetos were not the main workhorses of the day. They were used to ring the distant switchboards and to provide power to our next device, the dynamo.

Dynamos were and are main power producing engines of the early and modern electrical world. Needless to say any 'generating' device does not really produce electricity, but converts [usually rotary] motion provided by energy from heat which produces steam to drive a turbine, or water flowing downhill through a turbine which again produces rotary motion.

These turbines turn the armature of a dynamo, be it small or gigantic to turn that motion into electric current by again moving the armature windings through the magnetic lines of force in the dynamo.

But here is where the difference between the magneto and the dynamo become apparent. The magneto only relies on the permanent magnet in its structure for a magnetic field, but the dynamo's magnetic field is supplied by field coils which are excited by an outside source. That

Continued on page 47.

## In A Nutshell



Unfortunately summer is winding down with some temps in the mid 50s in the morning hours, but do not let that stop you from working on your antennas, getting involved with Parks on the Air, or just getting out with your portable.

That being said, things were looking like they were getting back to normal but now it seems that we have to be careful again. Hopefully it will pass sooner than later. If you are not going to be involved in outside activities, then go inside [especially if it is raining] and work on your shack's equipment. Check all of your connections to all of the wiring - whether it be power or RF related, replace worn wiring and upgrade those cheap connectors if there are any.

But most important is to get on the air and TALK to someone. We hams have been social distancing for over a hundred years. I have made many new RF friends in the past years and it feels good to hear a familiar voice coming from the other side.

To me digital and Morse, as good as they are cannot take the place of that human contact through the medium of audio and actually hearing that special individual voice.

Ham radio for now is the bridge over troubled water that keeps us connected to those in far and near places. Anyway, get involved and be safe.

73,

Fred Wawra, W2ABE



## Theoretics Demystified, continued

could be a battery, another smaller dynamo or a magneto. The field coils thusly had a much stronger magnetism and thereby produced a much stronger output. There are several types of dynamos, some with the field coils taking some of the output when started to power themselves in a shunt across the output and some with the coils taking in series with the load [but not too common]. Dynamos range from small to extremely large.

Nowadays we call dynamos generators and since the magnets are extremely stronger than a hundred years ago we can have very small magnetos/dynamos that we call generators. The newest twist to this is the invention of slip rings which give modern day dynamos the ability to produce alternating current electricity.

Most commercially produced power is three phase in output and from there it is reduced by transformers to what we call house current. Most long transmission of power is done three phase but some near the aurora borealis [northern lights, as we call them] is transmitted using DC to avoid power problems.

Dynamos of this type are called alternators, from the small ones in your car to the power station behemoths used to power our homes. Did you know that power line spacing is critical to avoid SWR at power frequencies, and that the three phases in transmission lines need to be rotated to prevent the same problems?

One more aside, the ac wiring in your home has to have the hot and neutral wires within close proximity of each other to prevent heating? That is why there were house fires in the early days when hot and neutral were run on opposite side of the buildings. So much for this old stuff, more to come next time.

73,

Fred Wawra, W2ABE



For FLARC membership info and renewal/application form please visit:

[membership.FairLawnARC.org](http://membership.FairLawnARC.org)

## FLARC Dues, new and renewal, (and even donations!) can now be made on-line ...

[Please note that this is a temporary improvement while Dave KD2JIP works on a real, full-fledged web page for filling out the membership/renewal form and submitting that and payment on-line.]

Payments can be made using either PayPal or Zelle.

Here's how –

### Using PayPal —

Log into your PayPal account at

<https://www.paypal.com>

At top right, select "My PayPal"

Under Quick links, select "Send Money"

In the window showing

Name, email or mobile number  
enter this email address:

[1947xyzabc1947@gmail.com](mailto:1947xyzabc1947@gmail.com)

Click on [ Next ]

Enter \$ amount you are sending, & in "add a note" area type in your CALL SIGN and which year (2020 or 2021) the dues are for, & any other explanation.

Click on [ Continue ]

Click on the [ Change ] button

Click on "Sending to a friend" link

CONTINUED IN NEXT COLUMN —>



Sending to a friend

No fee to use bank or balance to send to friends and family in the U.S.

You will see a summary of your transaction; if no changes are required, click on

[ Send Payment Now ]

to complete your transaction.

\$

### Using Zelle —

If you are using Zelle through your bank account, just send your dues to the following number: 201-240-9317

Don't forget to add in the note/message section your callsign and that it is for your 2020 and/or 2021 dues.

**OR** you can still use a good ol' Check or Money Order payable to FLARC - always put your Call Sign and "dues for 2020" (or 2021) on the check. MAIL TO:

**Bruce Kalogera, NJ2BS**  
163 Meadow Lane  
Secaucus, NJ 07094

## August 2021

### FLARC Business Meeting

#### Fairlawn Amateur Radio Club

#### Secretary's Minutes Prepared by Tom McCabe N2AXX

#### Business Meeting of August 6, 2021

The meeting was called to order by President Nomar Vizcarrondo, NP4H in the auditorium of the Fair Lawn Recreation Center, with streaming via Zoom video teleconference at 7:30 pm and concluded at 8:50 pm. Pledge of Allegiance was recited at 7:31 pm

Tom N2AXX Zoom access was delayed. President Nomar NP4H facilitated a roll call and a quorum was established:

President:	Nomar Vizcarrondo, NP4H
Vice President:	John Howard, W2JLH
Treasurer:	Bruce Kalogera, NJ2BK
Secretary:	Tom McCabe, N2AXX
Trustees (3):	Don Cassarini, K2PD
	Ed Efchak, WX2R
	Fred Wawra, W2ABE

Note: ~ 32 participants attended this hybrid meeting between in person at the Rec' Center and via Zoom video teleconference.

July 2021 FLARC Business Meeting Minutes were published in the July 2021 edition of The Resonator. A motion to accept the minutes as published was moved by President Nomar NP4H, seconded and accepted by the membership.

**Treasurer's Report:** presented by Bruce NJ2BK and included current TD account balances. Full report was sent to the FLARC board prior to the meeting.

**Visitors:** None

### Committee reports

**Technical:** President Nomar Vizcarrondo NP4H reported that FLARC has the funds to update the line-up of personal computers in the FLARC clubhouse at each operating position and might include the office. Nomar has been meeting with Brad KM2C reviewing the needs of computers for the clubhouse. The Technical Committee is suggesting a computer / processor board upgrade. Monitors, mice, keyboards, will be repurposed. A lot of debate and discussion evolved on this matter from costs, place of purchase, are faster machines required for logging, FT8, and general amateur use. The launch of Windows-11 was also mentioned as a reason to hold off.

Since funds are available a member presented the need for improving the antennas atop the Rec Center / clubhouse. Zoom audio was weak and it sounded like a mix of WARC HF bands and or the repeater's antenna. The Technical Committee Nomar NP4H, Paul W2IP, and Brad KM2C will be reviewing the antennas, coverage, and PC matters in the coming weeks.

Continued on next page.



## August 2021 FLARC

### Business Meeting, continued

**Publicity:** Ed WX2R reported on two Kawfee Talks for August. Charlie AC2ZU will present project Diana; Friday, August 13. Larry Van Horn N5FPW will present military monitoring via satellite; Friday, August 20. September 2021 is fully booked for Kawfee Talks so stay tuned. All Kawfee Talks are via Zoom. On Friday evenings when there is a Kawfee Talk on Zoom scheduled, the club will not be opened. October 17 is the Fair Lawn Street Fair and it is "on" as of 8-6-2021. Volunteers will be needed to help with communications and staffing our table. The FLARC Clubhouse is Open! And there are many ways to participate in visiting and operating from the club station.

**Webmaster:** Jim W2JC reminded attendees to watch the FLARC homepage for news and activities: <http://FairLawnARC.org> Don't forget to keep an eye on the Groups.io Calendar: <https://fairlawnarc.groups.io/g/main/calendar> An EMCOMM Special Interest Group (SIG) was just formed on Groups.io. Be sure to take a look and subscribe. Pop Up Tuesdays are very popular, fun, and very active. Fred W2AAB often does a "show and tell" of items in his antique "museum." Watch your Email for the announcement.

**Social Media:** No formal report. It was noted that FLARC Facebook is alive and well.

**RACES/ARES:** Jim N2JLF filed a detailed report filling in for Dave KD2MOB. Jim reported on the July 17<sup>th</sup> RACES-ARES simplex radio coverage test whereby Fair Lawn was divided into a nine section grid. RF coverage levels were mapped out between the Rec' Center's Net Control Station W2NPT and various locations within each grid. Net Control covers the entire borough of Fair Lawn. There are challenges and hard limitations with 3-5 W. handheld radios communicating to the Rec Center within the town. A new Radio Drill group is starting up between Jim N2JLF and Dave KD2MOB. There's a lot of talent within FLARC. Participate in drills and RF coverage tests without going all out joining RACES and or ARES. Jim shared his Email for follow-up and any questions: [N2JLF@arrrl.net](mailto:N2JLF@arrrl.net)

**VE Sessions:** Gene WO2W and President Nomar NP4H acknowledged and thanked the Ridgewood Masonic Lodge for allowing the use of their Maple Avenue facilities to continue with the VE exams indoors while the Fair Lawn Rec and Senior Centers were closed due to COVID. Gene WO2W reported that there will be a VE testing session Saturday, August 14<sup>th</sup> at the Fair Lawn Rec Center, 10-10 20<sup>th</sup> Street, Fair Lawn, NJ 07410. Thanks to Bill NB1LL for facilitating the two day Technician Class Jul 31 and Aug 1 at the Secaucus Masonic Lodge. Seven new Hams came out of the program and three new FLARC members. Stay tuned for a possible General Class and Test session.

**Field Day:** John W2JLH noted 2022 Field Day planning is starting and a call to action was made to stage equipment to be mobilized, transporting tables, chairs, tents, and radios, defining operators and shifts, the overall set-up and tear-down.

**FLARC Facilities:** Rec' Center is open and the FLARC Clubhouse is available. Senior Center usage is pending final confirmation from the borough manager.

### Special Interest Groups

**Monitoring:** Dave N2AAM reported that Larry Van Horn N5FPW will be making a presentation on monitoring August 20<sup>th</sup> and promises a great talk!

Continued on next page.

## August 2021 FLARC

### Business Meeting, continued

**POTA:** Noel W2MSA reports POTA activity is booming amongst numerous FLARC'ers! Nomar NP4H activated K7557, Parque Nacional de Cerro Gordo State Park in Puerto Rico July 10<sup>th</sup>. SLACK is the FLARC POTA operators' "squawk box" application. Recent POTA activations will be presented in upcoming editions of The Resonator. Get outdoors and operate even if it is your backyard as a start.

POTA operations are found and spotted at: <https://parksontheair.com/>

SOTA operations are found and spotted at: <https://www.sota.org.uk/>

Nomar NP4H recently made 62 QSOs within three hours from the Great Falls Park in Paterson, NJ.

Try it...HF, VHF, UHF, with 100 W HF transceiver and a wire or a 5 W handheld from your favorite Park or summit. A joint BARA/FLARC Portable Day is planned -- more to come from John W2JLH.

**Digital Voice:** No report.

**Dx'ing:** Several FLARC Members are spotting interesting DX stations (Special Events too) through the DX Groups.io DX board: Ed W2XR, Fred W2AAB, Jim W2JC, Tom N2AXX, Van W2DLT and others! Keep 'em coming as Cycle 25 continues to build.

### New Business

**North American QSO Party:** Van W2DLT will open the clubhouse at noon on August 21<sup>st</sup> for the NAQP SSB Contest: SSB operations are from 1800 UTC August 21 to 0600 UTC August 22, 2021 (third full weekend in August). Great opportunity to learn from Van and operate HF SSB, contest and log with N1MM+.

**FLARC Auction:** Bill Leger WA2WL is chairing the fall 2021 FLARC Auction that typically takes place on the Friday after Thanksgiving. Fred W2ABE and Judith KC2LTM were requested by President Nomar NP4H to support Bill and make the auction happen. Bill is confident in an event that is profitable to the club. Ideas were floated for a FLARC Fall 2021 Ham Fest.

**Health & Welfare:** Judith KC2LTM reported that Skip KD2BRV's XYL Maureen is recovering from recent cardiac matters and on the road to recovery. Skip reports that the doctors are pleased with both the cancer and new cardiac matters. Best wishes to Skip and Maureen. Van is trying to determine the whereabouts of Carol Van Savage since she left the Wyckoff Christian Health Center.

**Comments:** None

**Adjournment:** A motion to close the meeting was presented by Gene WO2W and seconded by NP4H and the Rec Center and Zoom conference bridge were closed.

Respectfully submitted August 8, 2021 by Tom McCabe N2AXX

'73

*Tom N2AXX*